WA 8967
8/21/2013
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RCRA Compliance Inspection Report

U.S. Department of Energy Hanford

(Effluent Treatment Facility/Liquid Effluent Retention Facility)

Richland, Washington

WA7890008967

August 20 - 21, 2013

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11/14/13
Report Date

Peer Review Signature

10/22/13
Date

Peer Review Signature

11/15/13
Date

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Disclaimer

This report is a summary of observations and information gathered from the facility at the time of the inspection. The information provided does not constitute a final decision on compliance with RCRA regulations, nor is it meant to be a comprehensive summary of all activities and processes conducted at the facility.

Section A: Basic Facility and Inspection Information

Facility Information

Handler Name:	U.S. Department of Energy Hanford
Handler ID Number:	WA789008967
Facility Contact/Title:	Cliff Clark, Regulatory Compliance Manager
Facility Location Address:	Hanford Facility, Richland Washington
Facility Mailing Address:	P.O. Box 550, Richland, Washington 99352-0550
Contact Phone Number:	(509) 376-9333
Contact Email Address:	clark.cliff@rl.doe.gov
GPS Coordinates of Site:	Lat: 46.565007 Long: -119.511100

Inspection Information

Inspection Type:	Focused Compliance Inspection (FCI) for the Effluent Treatment Facility/ Liquid Effluent Retention Facility (ETF/LERF)	
Inspection Date:	August 20, 2013	August 21, 2013
Arrival Time:	8:30 am PDT	8:45 am PDT
Departure Time:	4:30 pm PDT	9:30 am PDT
Inspection Team:	Jack Boller, RCRA Compliance Officer, EPA Kristin McNeill, RCRA Compliance Officer, EPA Kevin Schanilec, RCRA Compliance Officer, EPA Kathy Conaway, RCRA Compliance Officer, Washington Department of Ecology	

Section B: General Facility Information

Owner/Operator Information: The owner is the United States government. The primary operator is the U.S. Department of Energy (DOE) who uses multiple contractors to manage the facility and conduct various onsite activities.

Site Location: The Hanford Nuclear Reservation is an approximately 600 square mile facility located in central Washington State, immediately north of Richland, Washington. It is bounded on the north and east by the Columbia River. Immediately to the south of the reservation is the Richland/Kennewick/ Pasco Tri-cities urban area. The area to the north is the Hanford Reach National Wildlife Preserve. The surrounding areas to the east and west are sparsely populated agricultural land. According to EJSCREEN, the facility is not in an environmental justice area. The LERF/ETF hazardous waste unit group is located in the center of the Hanford facility on the east side of the Hanford 200 East Area and approximately 15 miles north of the southern boundary of the facility.

Background and Activities: The following background and description is paraphrased from the Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion, Permit Revision 8C, Class 1 Modification, dated March 31, 2012 (Permit).

The Liquid Effluent Retention Facility (LERF) and Effluent Treatment Facility (ETF) comprise an aqueous waste treatment system located in the 200 East Area. Both LERF and ETF may receive aqueous waste through several inlets. ETF can receive aqueous waste through three inlets. First, ETF can receive aqueous waste directly from the LERF. Second, aqueous waste can be transferred from the Load-in Station to ETF. Third, aqueous waste can be transferred from containers (e.g., carboys, drums) to the ETF through either the Secondary Waste Receiving Tanks or the Concentrate Tanks. The Load-in Station is located just east of ETF and currently consists of three storage tanks and a pipeline that connects to either LERF or ETF through fiberglass pipelines with secondary containment.

The LERF can receive aqueous waste through four inlets. First, aqueous waste can be transferred to LERF through a dedicated pipeline from the 200 West Area. Second, aqueous waste can be transferred through a pipeline that connects LERF with the 242-A Evaporator. Third, aqueous waste also can be transferred to LERF from a pipeline that connects LERF to the Load-in Station at ETF. Finally, aqueous waste can be transferred into LERF through a series of sample ports located at each basin.

The LERF consists of three lined surface impoundments with a nominal capacity of 29.5 million liters each. Aqueous waste from LERF is pumped to ETF through a double walled fiberglass pipeline. The pipeline is equipped with leak detection located in the annulus between the inner and outer pipes. Each basin is equipped with six available sample risers constructed of 6-inch-perforated pipe. A seventh sample riser in each basin is dedicated to influent waste receipt piping, and an eighth riser in each basin contains liquid level instrumentation. Each riser extends along the sides of each basin from the top to the bottom of the basin.

ETF is designed to treat the contaminants anticipated in process condensate from the 242-A Evaporator and other aqueous wastes from the Hanford Site. ETF consists of a primary and a secondary treatment train. The primary treatment train removes or destroys dangerous and mixed waste components from the aqueous waste. In the secondary treatment train, the waste components are concentrated and dried into a powder. This waste is containerized, and transferred to a waste treatment, storage, and/or disposal (TSD) unit.

Each treatment train consists of a series of operations. The primary treatment train includes the following:

- surge tank
- Filtration
- Ultraviolet light oxidation (UV/OX)
- pH adjustment
- Hydrogen peroxide decomposition
- Degasification
- Reverse osmosis (RO)
- Ion exchange
- Final pH adjustment and verification

The secondary treatment train uses the following:

- Secondary waste receiving
- Evaporation (with mechanical vapor recompression)
- Concentrate staging
- Thin film drying
- Container handling
- Supporting systems

A dry powder waste is generated from the secondary treatment train, from the treatment of an aqueous waste. The secondary waste treatment system typically receives and processes byproducts generated from the primary treatment train. However, in an alternate operating scenario, some aqueous wastes may be fed to the secondary treatment train before the primary treatment train.

The treated effluent is contained in verification tanks where the effluent is sampled to confirm that the effluent meets the delisting criteria. Under 40 CFR 261, Appendix IX, Table 2, the treated effluent from ETF is considered a delisted waste; that is, the treated effluent is no longer a listed dangerous waste subject to the hazardous waste management requirements of RCRA provided that the delisting criteria are satisfied and the treated effluent does not exhibit a dangerous characteristic. The treated effluent is discharged as a non-dangerous delisted waste under the Washington State Waste Discharge Permit (No. ST 4500). It is discharged to the SALDS, located in the 600 Area, north of the 200 West Area. A portion of the treated wastewater from the Verification Tanks is recycled as service water throughout the facility; for example, it is used to dilute bulk acid and caustic to meet processing needs, thereby reducing the demand for process water.

The NAICS code for the facility is 562211: Hazardous Waste Treatment and Disposal.

Section C: Regulatory Information

Compliance History: Historically, the Hanford facility is a perpetual Significant Non-Complier for RCRA. This is due to the fact that in the early 1990s, DOE entered into a Consent Agreement with EPA and the Washington Department of Ecology (Ecology) to set enforceable schedules for achieving milestones for site clean-up and RCRA permitting. Since the mid-1990s DOE has been out of compliance with the enforceable schedules, with little likelihood of ever returning to compliance. In addition, over the years several incidences of significant noncompliance with the permit conditions and generator regulations have been found by EPA and Ecology inspectors.

Over the last five years, Ecology and EPA have conducted annual inspections of various hazardous waste unit groups at the Hanford facility. These inspections identified several potential violations. Both EPA and Ecology inspectors have found it difficult to make definitive compliance determinations that support an enforcement action at Hanford because of unclear and conflicting permit conditions.

One of the more notable inspections was an inspection conducted in March of 2011 by inspectors from the EPA National Environmental Investigations Center (NEIC). That inspection looked at a small subset of the unit groups and identified 19 illegal storage units that were not authorized in the Permit and were not identified on the Part A forms for the unit groups that were inspected. That inspection resulted in an EPA-issued enforcement action which required DOE to pay a penalty and to work with Ecology to close the illegal units.

Regulatory Status: The Hanford facility is a permitted Treatment, Storage, and Disposal facility as well as a large quantity generator. The Permit was originally issued by Ecology in 1994 and had an expiration date of September 27, 2004. DOE has filed an application to renew the Permit. Pursuant to the provisions found in WAC173-303-806(7)(a), DOE will continue to operate under the original Permit until a new permit is issued, which is projected to happen in 2016.

The Permit has undergone several modifications. The current active Permit, including modifications, is dated March 31, 2012. It identifies multiple hazardous waste unit groups within the facility. Within each unit group, there may be several individual treatment, storage, or disposal units. The Permit has final status operating standards for some of the unit groups, but not all of them. The Permit provides that unit groups that do not have final status standards are to operate to interim status standards until such time that final status standards are implemented, either through a permit modification or issuance of a new

permit. Addendum A of the Permit for each unit group identifies the activities being conducted in that unit group and wastes that are potentially being managed in the unit group.

The ETF/LERF unit group has final status operating standards in the Permit as well as Addendum A information mentioned above. The permit identifies three surface impoundments that are permitted to treat and store RCRA-regulated wastewaters and one permitted container storage area in the ETF/LERF unit group. In preparation for conducting the onsite portion of this inspection, the Permit and Part A form were reviewed. During that review, it was noted that in Section IV of Addendum A the Physical Location of the facility is given as 825 Jadwin, Richland, Washington. This is actually the address of the federal building in Richland which is approximately 5 miles away from the southern boundary of the Hanford facility and 20 miles from the ETF/LERF location.

Site Hazardous Waste Information: The form in Addendum A (Attachment D) for the ETF/LERF unit group identifies 175 different characteristic, federally listed, or state-only regulated dangerous waste streams that may be managed in the units. These include wastes that contain heavy metals, both listed and characteristic wastes containing organic solvents, and one U-listed discarded chemical product (tetrachloroethylene).

Section D: Description of Inspection

Purpose of Inspection: This was a focused compliance evaluation inspection (FCI) of the ETF/LERF unit group. The facility was inspected to assure compliance with the Hanford Facility Resource Conservation and Recovery Act Permit, Permit Revision 8C, Class 1 Modification, dated March 31, 2012 (Permit); 40 C.F.R. Part 262 and WAC 173-303-170 through 230 standards for hazardous waste generators; 40 C.F.R. Part 273 and WAC 173-303-573 standards for universal waste; and 40 C.F.R Part 279 and WAC 173-303-515 requirements for management of used oil.

Inspection Entry and Opening Conference: The EPA members of the inspection team arrived in Richland on August 19, 2013, the day before the inspection, to complete site safety and security training and to obtain a site ID card that allowed access to the facility. Once this was completed, around 4:30 pm, we met with Cliff Clark, the DOE Regulatory Compliance Manager. We told him that we would be inspecting the ETF/LERF unit group the next day. We discussed the logistics for the inspection and agreed that we would meet at the Ecology offices in Richland in the morning to begin the inspection.

At 8:30 am on August 20, 2013 we met with Ecology representatives in their office in Richland prior to the arrival of DOE representatives and contractors. Around 8:45 the DOE/contractor representatives arrived and we began the inspection with an opening conference. Twenty-one people were in attendance. For a complete list of attendees, see the sign-in sheet in Attachment D. DOE was represented by, among others, Cliff Clark, Tony McKarns, and Michael Collins. Mr. McKarns and Mr. Collins accompanied us on the remainder of the inspection. Joel Williams, who is the primary contact for CHPRC, the contractor that manages ETF/LERF, also accompanied us on the inspection. Kathy Conaway and Rick Bond from Ecology were also present and accompanied us on the inspection.

In the opening conference, I explained that this would be an EPA lead inspection and that we would be evaluating compliance with the Permit and the Ecology federally-authorized Dangerous Waste Regulations. I confirmed the date for the most current version of the active Permit with both Ecology and DOE. I explained that in addition to looking at standard waste management practices, we would also be looking at documentation that delisting standards are being met for the treated effluent, that LDR treatment is being conducted in the LERF basins, and at the ground water monitoring plan and monitoring data. We discussed logistics for a closing conference. We ended the opening conference and Mr. Jerry Cammann, the Lead Inspection Coordinator for DOE contractor Mission Support Alliance (MSA), drove the EPA inspection team out to the ETF/LERF site.

We arrived at the ETF/LERF site at 9:30 am. We met with the ETF/LERF staff, whose names were added to the attendance sheet. The main sources of information were Paul Saueressig, the Operations Manager and Linda Petersen, the Unit Waste Manager. We began with a short site safety briefing and a short opening conference at the ETF/LERF, in which I asked Mr. Saueressig for a description of the activities conducted in the ETF/LERF units.

Mr. Saueressig began with a discussion of the LERF basins. He explained that there are 3 active basins/surface impoundments in the LERF. A fourth one was excavated but was never completed and has never received any waste. They were installed and put into service in 1995. The active basins are lined up from west to east and are numbered 42, 43, and 44. All of the basins are covered to prevent the evaporation of waste water and to prevent soil and debris from being blown into the basins by the wind. Basin 42 receives wastewater from the 242 Evaporator unit. It has not received waste in 2 years but is expected to resume receiving waste this fall, according to Ms. Petersen. Mr. Saueressig continued, explaining that Basin 43 receives leachate and groundwater from burial trenches 34 and 35 which are located in the 200 West Area. Basin 44 receives waste with higher radiation levels, including waste from the Purex facility, ERDF leachate, and waste waters from the 100 Area. The ERDF is the Environmental Restoration Disposal Facility, which is an on-site landfill for CERCLA waste Which is authorized under a CERCLA Record Of Decision (ROD).

Mr. Saueressig next discussed the Load-in area. He explained that mixed waste trench leachate comes in to the load-in area in 8000 gallon tank trucks. It is unloaded and 99% of the waste is pumped to one of the LERF basins. Occasionally the waste is pumped directly to the ETF. The load-in area also receives waste in drums from the Waste Sampling and Characterization Facility (WSCF) lab located in the 200 West Area. This waste is stored in the ETF permitted hazardous waste storage unit prior to treatment in the ETF.

Finally, Mr. Saueressig discussed the ETF operation. He explained that all of the wastes going to ETF are tested to make sure they meet hazard categorization (hazcat) standards established by DOE and to assess radiation levels. Wastes with high radiation levels are treated in smaller batches. Currently the ETF is treating 75,000 gallons/day (24 hours) from Basin 42. Depending on the waste, it is capable of treating up to 125,000 gallons/day. The effluent treatment process includes Ultra Violet oxidation to remove organics, pH adjustment, peroxide destruction, a degasification column to remove CO_2, reverse osmosis, and polishing in an ion exchange column. The treated water is sent to verification tanks to await test results to ensure that it meets the delisting standards and other RCRA standards. Because there is no process to remove tritium from wastewater, the treated water is released into an underground injection well called the State Approved Land Disposal Site (SALDS). The treated water is transferred through a pipe to the SALDS, which is approximately 6 miles west of the 200 West area. Solid residues (F-listed) are dried to a powder in an evaporator in the ETF, placed in drums, and sent to the onsite ERDF disposal unit.

I then asked about groundwater monitoring wells. Mr. Doug Hildebrand, DOE hydrogeologist, explained that there is one up-gradient well at the east end of the LERF basins and originally there were three down-gradient wells west of the LERF basins. Historically, more water was being discharged to groundwater, which resulted in a mound. The discharges have been stopped and the mound has subsided, resulting in two of the down-gradient wells going dry and the flow direction shifting from westerly to more southerly. As a result, a new down-gradient well was installed south of the LERF basins.

Mr. Saueressig then explained that they are currently cleaning vegetation and soil off of the cover of Basin 44. He said that approximately one year ago, they discovered radiation contamination on the cover. Soil, water, and vegetation have accumulated on the covers over time. The radiation contamination was not as high on the cover of Basin 42, which they used as a practice run for cleaning

the cover of Basin 44. They are using a crane to remove the vegetation and soil and move it into a roll-off box, which will be moved to the ERDF. At the time of the inspection, there was a less than 90 day accumulation area at Basin 44 for the roll-off box. The removal will allow them to inspect the cover for damage.

At this point we ended the opening conference at the ETF/LERF and began a tour.

Inspection Summary: Our tour began at the LERF basins (photo P1000299). Mr. Saueressig explained the basins had been pumped down to allow for removal of soil and vegetation from the covers. He said that the debris is tested for chemical and radiological contamination before being sent to ERDF. Mr. Williams said that 90% of the vegetation had been removed from basin 44. He said that any water was filtered out and placed back into the basin. I observed that each basin had a depth scale on one side of it to determine the depth of wastewater in it. The top of the scale was 22 feet. I observed that Basin 42 contained 14 feet, basin 43 contained 8 feet, and basin 44 contained 18 feet.

P1000299. LERF Basin 42. Basins 43 and 44 are identical to Basin 42.

Mr. Saueressig explained that the whole LERF area is considered a less than 90 day accumulation area. On the west side of Basin 44, we observed an accumulation pad that contained a large white super sack (photo P1000301). It was not labeled and it was not clear if it contained waste. Because the super sack was in a radiation area, we could not open the bag to observe the contents.

P1000301. Unlabeled super sack near Basin 44.

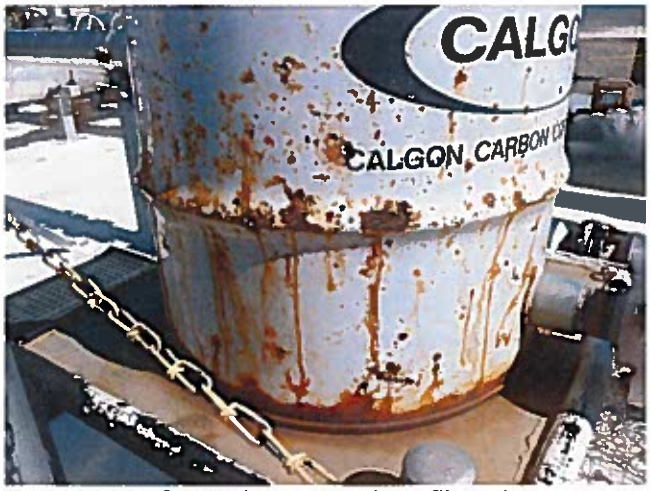
Later in the day, Joel Williams reported that a crew had been sent in to open the bag. They found that it contained tools and equipment used in managing the basins and did not contain any waste. The crew took photographs of the contents, so we could see what was inside the bag (attachment D).

South of Basin 44, we observed a large roll-off box that was partially covered with a tarp (photo P1000304). There was a hazardous waste label on the box, but most of it was covered by the tarp and could not be read. Because the roll-off box was in a radiation area, we could not get close enough to observe the label. Later in the day, Mr. Williams reported that the crew that had looked into the white bag described above also adjusted the tarp on the roll off box so that the label was fully visible. The crew provided photos to verify that this had been done (attachment E).

P1000304. Roll-off container for vegetation removal from Basin 44.

Near the northwest corner of Basin 43, we observed a passive carbon air filter treatment system for treating air from the tops of the basins. This was located in a pump-out site that pumps out waste water

to the ETF. The carbon filter was in a drum that was significantly rusted around the bottom. Ms. Petersen said that the drum was the original drum, and had been there for about 20 years. She also said that they do air calculations to determine when the filters need to be replaced. There was a new drum with a new carbon filter sitting by the unit and Mr. Saueressig said that it would be installed and the old drum would be removed soon (photos P1000308 and P1000309).



P1000308. Corrosion on carbon filter drum.

P1000309. New carbon filter drum.

As we walked around the LERF area, we observed the monitoring wells. The visible portion of them all appeared to be in good condition.

We next moved to the load-in building (2025 ED). Inside of the building, we observed two receiving bays (photo P1000310). Each bay contains a holding tank and pump system. Each bay is designed with berms, sealed floors, and a sloped entry ramp to provide containment for any releases that occur during waste transfer. According to Ms. Petersen, originally one bay was permitted for RCRA waste and the other was used only for non-RCRA purge water. She explained that the permit has been modified and now both bays may be used for RCRA waste. She then explained the load-in process, stating that wastewater is transferred from tank trucks into one of the holding tanks, one of which is inside the building and the other outside the building. She said that wastewater processed through the load-in building can be mixed waste trench leachate, or miscellaneous high-volume wastewater from the K-basins or sumps. She stated that the wastewater is passed through a five micron filtration system and was sent to either a LERF basin, the outside holding tanks, or the ETF. Ms. Petersen said that the filters are changed regularly and sent to ERDF as hazardous waste. We then observed the two empty tanks outside the building. Ms. Petersen explained that one was not currently in service, but it was in the permit, and that the other was old and out of service. They were planning on installing a replacement tank outside of the building once the permit was modified to account for the difference in size and composition from the original tank.

P1000310. Tank system in the load-in bay..

At this time, we broke for lunch.

After lunch, we resumed the inspection at the ETF building. We began in the control room which is on the second floor and offers a good overview of the treatment system (photo P1000315). Mr. Saueressig gave us a brief description of the effluent treatment process. Ms. Petersen stated that there is a small lab in the ETF for collecting samples, which are went to the Waste Sampling and Characterization Facility (WSCF). She said that waste from the samples is placed back into the ETF process. She also mentioned that there is secondary containment in the ETF rooms, including the process area, chemical storage area, and container storage area, which are on the diagram in the permit. Mr. Saueressig also explained that any releases in the plant would be captured in floor sumps and returned to the treatment system.

P1000315. View of the ETF from the control room.

We moved to the first floor and walked through the treatment area. We observed several small accumulation areas that the permit acknowledges the existence of, but does not clearly define their regulatory status (i.e., generator accumulation areas or permitted storage units). The first one we observed was a box that was a metal cube approximately 4 feet on each side. Inside of it was a one cubic yard fiber container covering a cardboard box. There were at least two drums of undetermined size inside the box (photo P1000317). When I asked what the regulatory status of the box was, Ms. Petersen stated that it was accumulation in a TSD. I asked if it was satellite accumulation or less than 90 day accumulation, and she said that it was neither of those. I asked if it was storage and she said no, that it was accumulation in a TSD. At that point Mr. McKarns stated that it was considered storage. I asked about the contents. Ms. Petersen explained that it contained low level mixed waste, contaminated PPE, and debris from facility maintenance activities. Both the metal box and the fiber container inside of it were marked with the words "Hazardous Waste," but were not marked with the date that accumulation began. The information on the label indicated that the waste in the inside container designated as F001, F002, F003, F004, F005 and F039. The drums inside the box were closed so it was not possible to determine how much waste was in them.

P1000317. Waste accumulation container on the west side of the ETF.

The next accumulation area we observed was a 8ft x 4ft x 4ft cardboard box with a large yellow plastic bag liner (photo P1000320). The box was marked with the words "Hazardous Waste" and labeled as containing F-listed carbon filters. The box contained spent carbon filters that were in individual boxes. It was approximately 25% full and was not marked with the date that accumulation began. According to one of the facility representatives, the waste is sent to Permafix for treatment and disposal.

P1000320. Waste accumulation container on the north side of the ETF.

We also observed three plastic 350-gallon totes that, according to the labels, contained sludge from sumps in the ETF (photo P1000321). They were marked with the words "Hazardous Waste," but none of them were marked with the date that accumulation began. One of these containers was in a metal jacket. Of the two that were not in a metal jacket, one was approximately 85% full and the other was approximately 5% full.

P1000321. Totes containing sludge at the north end of the ETF.

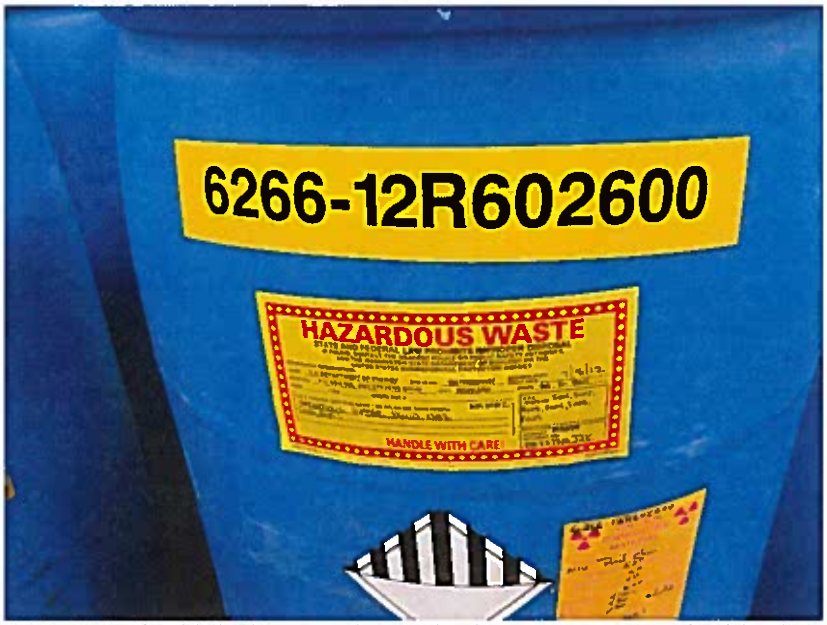
We observed that the dry powder residue from the treatment process is placed in drums through a remote automated system that is monitored by video cameras.

Off of one side of the main processing area, we observed a room that is designated in Figure C.3 of the Permit as a container storage unit (photo P1000331). We counted 82 drums in the room. There were 40 black metal drums that were marked with the words "Hazardous Waste" and with accumulation start

dates. Mr. Saueressig explained that these drums contained dried residue from the treatment process and were being stored until enough are accumulated to make a shipment to the ERDF.

P1000331. Permitted storage unit inside the ETF.

The other 42 drums were blue plastic drums. Mr. Saueressig explained that the blue drums contained liquid waste that had come from the WSCF lab and were awaiting treatment through the ETF process (photo P1000324). We observed that some of the drums were slightly bulging and, according to accumulation start dates (ASDs) on the drums, at least fifteen of them may have been stored at the ETF for more than one year. Mr. Collins stated that there is a DOE order (435.1) that they need to get permission to store for greater than one year, but he said that there was no time limit in their RCRA permit. He said that it was a requirement for radioactive waste management. Ms. Petersen said that the drums were being held for blending into a specific batch through the ETF process. In order to determine exactly how long they had been in storage, and whether or not the storage for more than one year was to avoid LDR requirements, we requested that they provide us more information on the following drums: 6266-12R102586 (ASD: 5/17/12), 6266-12R302594 (ASD: 5/24/12), 6266-12R102603 (ASD: 7/3/12), 6266-12R602600 (ASD: 7/5/12), 6266-13R302721 (no date), CP-11-17-A (ASD: 10/20/11) and 9805589 (labeled "empty 5/18/12; glass debris"). For each of these drums, we asked for the date that storage began, the contents, any sample results, and an explanation of why they were in storage over one year (this information is found attachments F and G).



P1000324. Typical labeling on drums in the storage area inside the ETF.

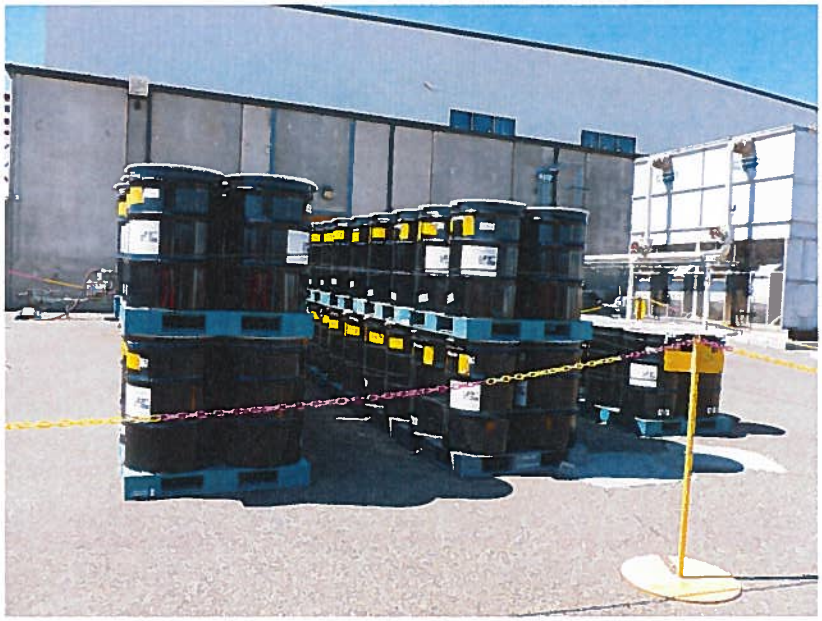
We continued our walk through of the plant. We observed a large wooden box that we were told contained large machine parts that were being discarded (photo P1000332) Each part was wrapped in plastic and the box was covered with plastic. The box was marked with the words "Hazardous Waste," but was not marked with the date that accumulation began. The information on the label indicated that the waste in the inside container designated as F001, F002, F003, F004, and F005.

P1000332. Wooden box containing discarded machine parts.

We also observed a used oil drum that was closed and locked and labeled as "recycle accumulation area for used oil." The funnel on the drum was labeled "vapor compressor oil and vapor compressor gear box oil only." There was a log book with the drum.

Outside of the ETF building, at the south end of the paved area on the east side of the building, I counted 136 black drums sitting on palettes with no secondary containment and no cover (photo P1000334). Mr. Saueressig explained that these drums contained the dried powder residue from the

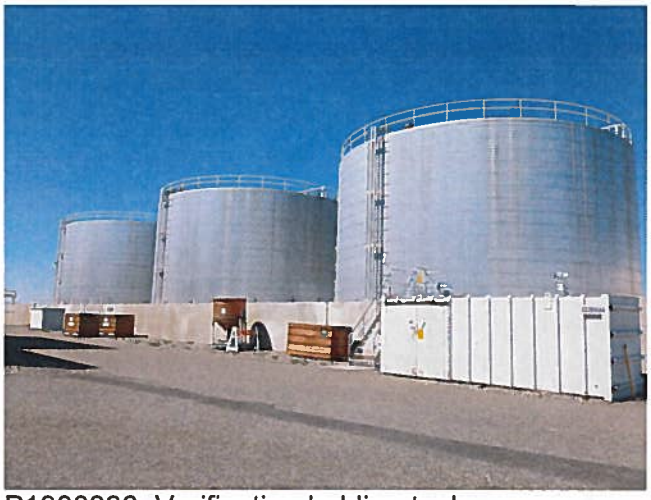
ETF treatment process, which is F-listed mixed waste. The drums were stacked two pallets high and were in a roped-off radiation area. According to Diagrams in Figure C.2 and Figure C.3 in the Permit, this area is not designated as a hazardous waste storage unit (attachment H). We observed that the drums were closed, marked with the words "Hazardous Waste," and marked with accumulation start dates. The drums that we observed had accumulation start dates that were more than one year old (mostly April through July 2012). Mr. Saueressig said that the drums had been there for more than one year because of a misunderstanding on what LDR treatment standards would need to be met before sending them to ERDF. He said that the waste contained less than 5.0 mg/L chromium, which is less than the regulatory limit for characteristic waste, but contained a higher chromium concentration than the LDR treatment standard of 0.60 mg/L (TCLP). The analytical results for the waste in the drums and an inventory are in attachment I. He said that they were working with Ecology to determine how to stabilize the chromium in the waste so that the drums could be sent to ERDF. One of the facility representatives said that these drums could be disposed of at Permafix. Mr. Collins explained that they send waste to Permafix because of the radiation levels, large size (e.g., the boxes from waste retrieval), or if there are LDR issues with the waste.



P1000334. Container storage area outside the ETF.

At the north end of the paved area on the east side of the ETF building, we observed a waste accumulation area (photo P1000335). There were several blue drums that were empty and three super sacks that Mr. Saueressig said contained PPE and debris. He said that they will hold on to the super sacks until they get 10 bags and then they will send them to ERDF. They were all marked with the words "Hazardous Waste" and the waste codes F001, F002, F003, F004, F005, and F039. In this area, we also observed the three verification tanks for treated effluent (tritiated DI water), each of which holds 670,000 gallons (photo P1000336). Mr. Saueressig said that the tanks take 7-10 days to fill and that no silt accumulates in the bottom of the tanks.

P1000335. ETF waste accumulation area.


P1000336. Verification holding tanks.

On the east side of the paved area, there was a cabinet used for accumulating universal waste lamps and batteries. There were seven boxes of used lamps and six pails of batteries. All of the containers were closed, labeled as universal waste, and marked with accumulation start dates. The oldest date was 10/4/12.

At this point, we completed the tour and began a file review. We asked for analytical records for the delisting certification, LDR treatment, incoming waste verification, discharge verification, and ground water monitoring. We asked for inspection logs and the unit-specific contingency plan. We also asked for hazardous waste training records for a number of people who hold different hazardous waste management positions.

It was explained to us that all of the ground water monitoring data can be obtained on the internet. Mr. Hildebrand demonstrated how to access and navigate the website. We reviewed some of the data. It appeared that the ground water monitoring is following the plan that is in the Permit.

Ms. Petersen explained that all of their inspection logs are stored electronically and demonstrated this. We reviewed some of the logs since the beginning of 2013 and asked for copies of the inspection logs and the corresponding equipment deficiency lists (EDL) logs, which document that deficiencies found during inspections are corrected.

Training records are also stored electronically. We reviewed training records for Mark Bowman (engineer/scientist), Bruce Godfrey (nuclear chemical operator, CHPRC), Linda Petersen (environmental compliance officer, FFS), and Rhonda Swan (hazardous waste coordinator and waste service provider, ETMEC). All of them were up to date on their required hazardous waste training and annual refreshers.

We compiled a document request for documents that we did not have time to review during the inspection (attachment J). Following the inspection, Mr. Williams provided a response to our document request. He provided a disc with over 3000 pages of documents. Pertinent documents are included as printed attachments, as specified in this report. A copy of the original disc, along with a copy of the table of contents for the disc, is included as attachment K. The documents provided included, in part, sections of the Permit specific to ETF/LERF, the inspection plan and inspection logs for ETF/LERF, the equipment deficiency list, the ETF/LERF training plan, an inventory of containers in the storage unit inside the ETF, and analytical results used to demonstrate compliance with the delisting criteria.

Review of the training plan, the inspection plan, and the inspection logs did not find any deficiencies. The equipment deficiency list is used to track work being done to address equipment deficiencies

identified during inspections. The list indicated that a lot of this work was in process but had not been completed. The container inventory for the storage unit inside the ETF identified 9 containers of waste from WSCF that had been in storage awaiting treatment for more than one year (attachment F). We also received information on drum #9805589, which was opened and was found to contain four 2-foot long glass sampling tubes and no used oil. The documentation showed that it had been relabeled to accurately identify the contents.

The delisting approval for the treated waste water from ETF sets maximum concentrations for 45 different inorganic and organic chemical constituents. This includes a maximum total of 0.5 ppb for nine Arochlors. The analytical results for compliance with the delisting reported the results for each of the nine Arochlors at the detection limit, which is 0.1 ppb for eight of them and 0.2 ppb for the ninth (attachment L). The total of the detection limits is 1.0 ppb which is double the 0.5 ppb maximum total allowed. The sampling protocol appears to be insufficient to demonstrate that the delisting maximum of 0.5 ppb for total Arochlors is being met.

We ended the inspection and left the site at 4:30 pm. Mr. Cammann drove the EPA inspection team back to the Ecology building.

Closing Conference: On August 21, 2013 at 8:45 am, we convened in the federal building in Richland for a closing conference. Representatives from DOE, a number of contractors, and Ecology were present (the attendance roster is in Energy's response to EPA's document request in attachment K).

We began by providing our document request list to Joel Williams and taking a few minutes to make sure the list was clear. Mr. Williams committed to getting the documents to us as soon as possible.

I stated that the revisions to the ground water monitoring system appeared to be a step in the right direction. I also commended them for cleaning the covers on the LERF basins.

I discussed the two storage areas at the ETF that had containers in storage over one year. We explained that the facility needed to be able to show that the drums were not being held to avoid LDR requirements. I stated that based on the information we had at the time of the inspection, it appeared that the drums could have been shipped offsite or the waste treated in less than a year.

I also mentioned that we had a concern with the drums in the storage unit outside the ETF not being in secondary containment and not being under cover. Mr. McKarns stated that secondary containment is not required for solids.

I expressed concern that Hanford is the keeper of the official up-to-date version of the permit and that the regulatory agencies (Ecology and EPA) have to come to the permitee to confirm which permit revision is current. Mr. Clark said that it is in the Tri-Party Agreement for the facility to maintain the administrative record for the RCRA permit. He said that they set up the system to ensure that they were always operating under the current permit. He also said that they would have a conversation with their contractor (MSA) to see if we can get access to their internal online system where the current permit is stored. We verified that Permit Revision 8C, Class 1 Modification, dated March 31, 2012, which is the copy of the permit we are working from, is the current version of the Permit. Ms. Conway said that she has verified that Ecology also has the current Permit.

After explaining our process for follow-up, I thanked everyone for their time and cooperation and ended the closing conference at 9:30 am.

Post-Inspection: On October 17, 2013, EPA received a letter from DOE addressing the storage of waste for more than one year in both the inside and outside hazardous waste storage units for the ETF observed during the inspection. That letter is included as attachment L.

In the letter, DOE explained that they believe they are not subject to the one year storage limit because they meet the exemption allowed for mixed wastes. They further explained that the waste in the inside unit had not been treated at the time of the inspection due to the need to treat the water in the LERF basins to allow for the cleaning of the covers. Subsequently, equipment breakdowns also required extended time to address before the waste in the ETF inside storage unit could be processed.

The letter also explained that the solid hazardous waste in the drums in the outside storage unit were there for more than one year due to a misunderstanding of the need to meet LDR treatment standards for chromium prior to sending the waste to ERDF. They had been trying to develop a method to stabilize the metals on site so they would meet the LDR standard. Following the inspection, they decided to abandon that effort and sent the waste offsite to Permafix to be treated prior to disposal at ERDF.

ATTACHMENT A

Aerial Photo

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

bing Maps

My Notes

On the go? Use **m.bing.com** to find maps, directions, businesses, and more

Bird's eye view maps can't be printed, so another map view has been substituted.

ATTACHMENT B

RCRAInfo Database Compliance Inspection Report

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

EPA Region 10 RCRA Compliance Inspection Report

Handler Name: US DEPT OF ENERGY HANFORD FACILITY

Handler ID Number: WA7 89000 8967

Inspection Date: 6/20-21/2013

Inspection Type: CEI - focused

Site Contact Name: ~~STEPHEN R WEIL~~ Cliff Clark

Site Location: HANFORD FACILITY RICHLAND, WA 99352

Site Mailing Address: PO BOX 550 RICHLAND WA 99352

Contact Phone Number: 509 ~~3720879~~ 376-9333

Inspection Team:

Report Start Date:

Report Author Name (print) :

Report Author(signature) : **Date :**

*** See section B for more information**

Source of Current Data: unknown | **Date Received: 02/22/2012**
Land Type: Federal | **Non-notifier: No**

Owner Information

US DEPARTMENT OF ENERGY
PO BOX 550 RICHLAND 99352 phone: 5093722400

Operator Information

US DEPARTMENT OF ENERGY
PO BOX 550 RICHLAND 99352 phone: (509)376-7395

Hazardous Waste Activity Information

Generator status: large quantity generator
Used Oil: no
Universal waste: yes
Importer: no
Onsite burner exempt: no
Underground injection: no

Transporter: yes
SNC: yes
Recycler: no
Mixed waste generator: yes
Furnace exempt: no

Waste Codes (from unknown, received 02/22/2012. 64 of 103 waste codes displayed.)

D001	D002	D003	D004	D005	D006	D007	D008	D009	D010	D011	D012	D015	D018	D019	D020
D022	D023	D024	D026	D027	D028	D029	D030	D032	D033	D034	D035	D036	D037	D038	D039
D040	D041	D043	F001	F002	F003	F004	F005	F039	P012	P015	P022	P030	P076	P082	P098
P106	P119	P120	U001	U002	U007	U019	U031	U037	U044	U052	U053	U056	U060	U072	U077

TSDF Indicators (l = land disposal i - incinerator b = BIF s = storage t = treatment)

Operating TSDF: l--st
Permit Progress: li-st
Closure Workload: l--st
CA Workload: yes

Full Enforcement: l--st
Permit Workload: l--st
Postclosure Workload: l----
Subject to CA: yes

List of Permit Units, Sorted By Name

Number of units: 136

Unit Name	Effective Date	Legal & Operating Status	Capacity
100DPONDS	08/09/99	PERMITTED - CLEAN CLOSED	19,600,000 Gal
100DPONDS	08/09/99	PERMITTED - CLEAN CLOSED	45,000 Gal/Day
105DRSFF	07/01/04	PERMITTED - CLEAN CLOSED	20,000 L
105DRSFF	07/01/04	PERMITTED - CLEAN CLOSED	100 L/Day
130INLWDF	03/31/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	4,320,000 Gal
1324NAPPOND	03/31/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	1,000,000 Gal
1324NAPPOND	03/31/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	1,000,000 Gal/Day
1324NSI	03/31/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	4,000,000 Gal/Day
1325NLWDF	03/31/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	4,320,000 Gal
1706KEWTS	12/01/07	PERMITTED - REFERRED TO CERCLA	650 Gal
1706KEWTS	12/01/07	PERMITTED - REFERRED TO CERCLA	1,500 Gal/Day
183HSEB	03/31/04	POST-CLOSURE PERMITTED - REFERRED TO CORRECTIVE A	2,167,000 Gal
183HSEB	03/31/04	POST-CLOSURE PERMITTED - REFERRED TO CORRECTIVE A	700 Gal/Day
200ETF	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	216,000 Gal/Day
200ETF	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	39,600 Gal
200ETF	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	2,010,000 Gal

List of Permit Units (continued) Number of units: 136

Unit Name	Effective Date	Legal & Operating Status	Capacity
204ARWUS	12/07/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	50,000 Gal/Day
207ASRB	12/01/07	PERMITTED - REFERRED TO CERCLA	210,000 Gal
2101-M POND	11/28/95	PERMITTED - CLEAN CLOSED	18,750 Gal
216A10CRIB	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	72,000 Gal
216A29D	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	60,000,000 Gal
216A29D	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	60,000,000 Gal/Day
216A36BCRIB	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	116,000 Gal
216A37-1CRIB	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	86,400 Gal
216B3POND	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	840,000 Gal
216B3POND	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	840,000 Gal/Day
216B3PX	07/31/95	PERMITTED - CLEAN CLOSED	27,960,000 Gal
216B3PX	07/31/95	PERMITTED - CLEAN CLOSED	27,960,000 Gal/Day
216B63T	12/01/07	PERMITTED - REFERRED TO CERCLA	200,000 Gal
216B63T	12/01/07	PERMITTED - REFERRED TO CERCLA	200,000 Gal/Day
216S10P&D	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	150,000 Gal
216U12CRIB	12/01/07	PERMITTED - REFERRED TO CERCLA	50,000 Gal
221TCSTF	02/22/99	NEVER REGULATED AS A TSD - PROTECTIVE FILER	100 L/Day
222SLAB	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	9,500 Gal
222SLAB	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	206 Gal/Day
222SLT&P	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	37,200 L
222SLT&P	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	780 L/Day
222SLT&P	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	27,020 L
224T-TRUSAF	12/01/07	PERMITTED - REFERRED TO CERCLA	110,000 Gal
241CX70	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	30,000 Gal
241ZTT	05/24/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	17,200 Gal
241ZTT	10/22/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	4,300 Gal/Day
242AE	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	170,597 L
242AE	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	870,642 Gal/Day
242AE	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	216,000 Gal/Day
2727SSF	03/28/00	PERMITTED - CLEAN CLOSED	27,000 Gal
2727WASRE	02/22/99	NEVER REGULATED AS A TSD - PROTECTIVE FILER	35,000 Gal
300APT	03/31/04	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	3,000,000 Gal
300ASE	03/28/00	PERMITTED - CLEAN CLOSED	220 Gal
300ASE	03/28/00	PERMITTED - CLEAN CLOSED	220 Gal/Day
300AWAT	01/21/05	PERMITTED - CLEAN CLOSED	4,360 Gal
300AWAT	01/21/05	PERMITTED - CLEAN CLOSED	3,700 Gal/Day
300AWAT	01/21/05	PERMITTED - CLEAN CLOSED	4,200 Gal/Day
300AWAT	01/21/05	PERMITTED - CLEAN CLOSED	9,000 Gal
300AWAT	01/21/05	PERMITTED - CLEAN CLOSED	5,000 Gal/Day
303KSF	07/22/02	PERMITTED - CLEAN CLOSED	11,000 Gal
303MOF	06/15/06	PERMITTED - CLEAN CLOSED	0 T/Hr
304CF	01/21/96	PERMITTED - CLEAN CLOSED	1,100 Gal
304CF	01/21/96	PERMITTED - CLEAN CLOSED	550 Gal/Day
305BSF	06/28/07	PERMITTED - CLEAN CLOSED	30,000 Gal
324SRPP	06/09/97	NEVER REGULATED AS A TSD - PROTECTIVE FILER	20 L/Day
325HWTUS	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	750 Gal
325WTF	03/31/04	PERMITTED - CLEAN CLOSED	10,000 Gal/Day

List of Permit Units (continued) Number of units: 136

Unit Name	Effective Date	Legal & Operating Status	Capacity
331CSU	01/08/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	20,000 Gal
332SF	04/21/97	NEVER REGULATED AS A TSD - PROTECTIVE FILER	1,800 Gal
3718FAMTF	08/04/98	PERMITTED - CLEAN CLOSED	2,000 L
3718FAMTF	08/04/98	PERMITTED - CLEAN CLOSED	25 L/Day
3718FAMTF	08/04/98	PERMITTED - CLEAN CLOSED	100 L/Day
400 AREA WMU	01/01/90	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	20,000 Gal
400AWTU	08/22/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	15,000 Gal
437MASF	09/11/03	NEVER REGULATED AS A TSD - PROTECTIVE FILER	20 L/Day
4843AMSF	04/14/97	PERMITTED - CLEAN CLOSED	22,000 Gal
600APS&TF	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	60,000,000 Gal
600APS&TF	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	14,000 Gal/Day
616NDWSF	09/05/01	PERMITTED - CLEAN CLOSED	28,635 Gal
ASHPIT	11/28/95	PERMITTED - CLEAN CLOSED	150 Gal/Day
BPLANT	12/01/07	PERMITTED - REFERRED TO CERCLA	46,000 Cu-Yd
BPLANT	12/01/07	STATE REGULATED - INACTIVE/CLOSING, BUT NOT YET RCRA	13,475 Gal
BPLANT	12/01/07	STATE REGULATED - INACTIVE/CLOSING, BUT NOT YET RCRA	83,490 Gal
BPLANT	12/01/07	STATE REGULATED - INACTIVE/CLOSING, BUT NOT YET RCRA	5 Cu-M
BPLANT	12/01/07	STATE REGULATED - INACTIVE/CLOSING, BUT NOT YET RCRA	28,300 Gal/Day
BPLANT	12/01/07	STATE REGULATED - INACTIVE/CLOSING, BUT NOT YET RCRA	3,500 Gal/Day
BTTF	12/10/96	NEVER REGULATED AS A TSD - PROTECTIVE FILER	5,000 Gal/Day
CWC	04/20/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	22,710,000 L
CWC	04/20/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	45,420 L/Day
DST	05/31/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	100,410,000,000 Gal/D
DST	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	40,041,000 Gal
E8BP	11/28/95	PERMITTED - CLEAN CLOSED	150 Gal/Day
GTF	12/01/07	PROPOSED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	800 Gal
GTF	12/01/07	PROPOSED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	1,315 Gal/Day
GTF	02/07/95	PROPOSED - CLOSED WITH WASTE IN PLACE	185 Ac-F
GTF	02/07/95	PROPOSED - CLOSED WITH WASTE IN PLACE	101,000 Gal/Day
GTF	02/07/95	PROPOSED - CLOSED WITH WASTE IN PLACE	101,000 Gal/Day
HPADS	02/07/95	PERMITTED - CLEAN CLOSED	568 Gal/Day
HS&T	12/01/07	PERMITTED - REFERRED TO CERCLA	40,000 Gal
HS&T	12/01/07	PERMITTED - REFERRED TO CERCLA	97,150 Gal
HS&T	12/01/07	PERMITTED - REFERRED TO CERCLA	210 Gal/Hr
HS&T	12/01/07	PERMITTED - REFERRED TO CERCLA	3,000 L/Day
HWVP	10/21/05	NEVER REGULATED AS A TSD - PROTECTIVE FILER	250 L/Hr
HWVP	10/21/05	NEVER REGULATED AS A TSD - PROTECTIVE FILER	1,479,935 L
HWVP	10/21/05	NEVER REGULATED AS A TSD - PROTECTIVE FILER	1,544,280 L
HWVP	10/21/05	NEVER REGULATED AS A TSD - PROTECTIVE FILER	2,271 L
HWVP	10/21/05	NEVER REGULATED AS A TSD - PROTECTIVE FILER	100,341 L/Day
LERF	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	19,500,000 Gal
LERF	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	10,000,000 Gal/Day
LLBG	12/01/07	PERMITTED - CLOSED WITH WASTE IN PLACE	950 Ac
NRDWL	12/01/07	PERMITTED - REFERRED TO CERCLA	5 Ac-F
ORP-WTP-CONTAINER	03/31/04	PERMITTED - UNDER CONSTRUCTION	1,830,455 Gal
ORP-WTP-OTHERTRTM2	03/31/04	PERMITTED - UNDER CONSTRUCTION	774 Gal/Day
ORP-WTP-OTHERTRTMT	03/31/04	PERMITTED - UNDER CONSTRUCTION	12,506 Gal/Day

List of Permit Units (continued) Number of units: 136

Unit Name	Effective Date	Legal & Operating Status	Capacity
ORP-WTP-TNKSTORAGE	03/31/04	PERMITTED - UNDER CONSTRUCTION	6,004,830 Gal
ORP-WTP-TNKTRTMT	03/31/04	PERMITTED - UNDER CONSTRUCTION	34,636 Gal/Day
P&CTF	05/19/88	NEVER REGULATED AS A TSD - PROTECTIVE FILER	110 Gal
P&CTF	05/13/96	NEVER REGULATED AS A TSD - PROTECTIVE FILER	30 Gal/Day
PFPTUHA20MB	02/08/05	PERMITTED - CLEAN CLOSED	1 L
PUREX	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	1,239,733 L
PUREX	12/01/07	PERMITTED - REFERRED TO CERCLA	432 Cu-M
PUREX	12/01/07	PERMITTED - REFERRED TO CERCLA	103,600 Gal/Day
PUREX1&2	03/31/04	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	24,007 Gal
SHLWTS	02/07/95	PERMITTED - CLEAN CLOSED	20,000 Gal
SHLWTS	02/07/95	PERMITTED - CLEAN CLOSED	550 L/Day
SSFSRF	01/15/04	NEVER REGULATED AS A TSD - PROTECTIVE FILER	1,105,337 L
SSFSRF	01/15/04	NEVER REGULATED AS A TSD - PROTECTIVE FILER	2,700 L/Day
SST	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	91,880,000 Gal
SST	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	0 Cu-Yd
SST	12/01/07	PERMITTED - INACTIVE/CLOSING, BUT NOT YET RCRA CLOSE	600,000 Gal/Day
TPLANT	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	2 T/Hr
TPLANT	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	200,000 Gal
TPLANT	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	77,400 Gal
TPLANT	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	35,170 Cu-Yd
TPLANT	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	14,000 Gal/Day
TPLANT	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	1,000 Gal/Day
TTTF	05/13/96	NEVER REGULATED AS A TSD - PROTECTIVE FILER	400 L/Day
WESF	12/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	454 L
WRAP	04/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	73,500 Gal/Day
WRAP	04/01/07	PERMITTED - OPERATING, ACTIVELY MANAGING RCRA-REGU	12,900 L/Day

NAICS Codes: 562211

Facility History

Complete SNC Inspection History (most recent first) — Number of SNC inspections: 5

Inspection Date	Inspection Type	Inspecting Agency	Violations Found
12/17/2012	SNY: significant non-complier	EPA	yes
07/20/2006	SNY: significant non-complier	State	yes
07/22/2002	SNY: significant non-complier	State	yes
10/29/2001	SNN: not a significant non-complier	EPA	no
05/11/1998	SNY: significant non-complier	EPA	no

Other Inspections Since 1/1/2008 (most recent first) — Number of inspections: 233

Inspection Date	Inspection Type	Inspecting Agency	Violations Found
09/09/2013	CAV: compliance assistance visit	State	no
09/06/2013	CAV: compliance assistance visit	State	no
08/29/2013	CAV: compliance assistance visit	State	no
08/21/2013	CAV: compliance assistance visit	State	no
08/21/2013	CAV: compliance assistance visit	State	no
08/20/2013	FCI: focused compliance inspection	EPA	unknown
08/20/2013	CAV: compliance assistance visit	State	no
08/15/2013	CAV: compliance assistance visit	State	no
08/14/2013	CAV: compliance assistance visit	State	no
08/14/2013	CAV: compliance assistance visit	State	no
08/13/2013	CAV: compliance assistance visit	State	no
08/09/2013	CAV: compliance assistance visit	State	no
08/08/2013	CAV: compliance assistance visit	State	no
08/06/2013	CAV: compliance assistance visit	State	no
08/01/2013	CAV: compliance assistance visit	State	no
07/31/2013	CAV: compliance assistance visit	State	no
07/26/2013	CAV: compliance assistance visit	State	no
07/25/2013	CAV: compliance assistance visit	State	no
07/25/2013	FCI: focused compliance inspection	State	no
07/24/2013	CAV: compliance assistance visit	State	no
07/22/2013	CAV: compliance assistance visit	State	no
07/18/2013	CAV: compliance assistance visit	State	no
07/16/2013	CAV: compliance assistance visit	State	no
07/12/2013	CAV: compliance assistance visit	State	no
07/11/2013	CAV: compliance assistance visit	State	no
07/10/2013	CAV: compliance assistance visit	State	no
07/03/2013	CAV: compliance assistance visit	State	no
06/26/2013	CAV: compliance assistance visit	State	no
06/26/2013	CAV: compliance assistance visit	State	no
06/18/2013	CAV: compliance assistance visit	State	no
06/13/2013	CAV: compliance assistance visit	State	no
06/05/2013	CAV: compliance assistance visit	State	no
06/03/2013	CAV: compliance assistance visit	State	no
05/29/2013	CAV: compliance assistance visit	State	no

Facility History (continued)

Other Inspections Since 1/1/2008 (most recent first) — **Number of Inspections: 233**

Inspection Date	Inspection Type	Inspecting Agency	Violations Found
05/22/2013	CAV: compliance assistance visit	State	no
05/15/2013	CAV: compliance assistance visit	State	no
05/08/2013	CAV: compliance assistance visit	State	no
05/07/2013	CAV: compliance assistance visit	State	no
04/29/2013	CAV: compliance assistance visit	State	no
04/24/2013	CAV: compliance assistance visit	State	no
04/18/2013	NRR: non-financial record review	State	no
04/17/2013	CAV: compliance assistance visit	State	no
04/11/2013	CAV: compliance assistance visit	State	no
04/08/2013	CAV: compliance assistance visit	State	no
03/14/2013	CAV: compliance assistance visit	State	no
03/14/2013	CAV: compliance assistance visit	State	no
03/13/2013	CAV: compliance assistance visit	State	no
03/08/2013	CAV: compliance assistance visit	State	no
02/27/2013	CAV: compliance assistance visit	State	no
02/27/2013	CAV: compliance assistance visit	State	no
02/26/2013	CAV: compliance assistance visit	State	no
02/21/2013	CAV: compliance assistance visit	State	no
02/20/2013	CAV: compliance assistance visit	State	no
02/12/2013	CAV: compliance assistance visit	State	no
01/16/2013	CAV: compliance assistance visit	State	no
01/15/2013	CAV: compliance assistance visit	State	no
01/11/2013	CAV: compliance assistance visit	State	no
01/10/2013	CAV: compliance assistance visit	State	no
01/09/2013	CAV: compliance assistance visit	State	no
01/09/2013	CAV: compliance assistance visit	State	no
01/09/2013	CAV: compliance assistance visit	State	no
12/27/2012	CAV: compliance assistance visit	State	no
12/20/2012	CAV: compliance assistance visit	State	no
12/12/2012	CAV: compliance assistance visit	State	no
12/11/2012	NRR: non-financial record review	EPA	yes
12/11/2012	CAV: compliance assistance visit	State	no
12/11/2012	CAV: compliance assistance visit	State	no
12/11/2012	CAV: compliance assistance visit	State	no
12/05/2012	CAV: compliance assistance visit	State	no
11/20/2012	CAV: compliance assistance visit	State	no
11/16/2012	CAV: compliance assistance visit	State	no
11/13/2012	FCI: focused compliance inspection	State	yes
11/12/2012	CAV: compliance assistance visit	State	no
11/06/2012	CAV: compliance assistance visit	State	no
11/01/2012	CAV: compliance assistance visit	State	no
10/31/2012	CAV: compliance assistance visit	State	no
10/30/2012	CAV: compliance assistance visit	State	no
10/29/2012	CAV: compliance assistance visit	State	no

Facility History (continued)

Other Inspections Since 1/1/2008 (most recent first) — **Number of inspections: 233**

Inspection Date	Inspection Type	Inspecting Agency	Violations Found
10/25/2012	CAV: compliance assistance visit	State	no
10/11/2012	CAV: compliance assistance visit	State	no
10/02/2012	CAV: compliance assistance visit	State	no
09/26/2012	CAV: compliance assistance visit	State	no
09/18/2012	CAV: compliance assistance visit	State	no
09/13/2012	CAV: compliance assistance visit	State	no
09/12/2012	CAV: compliance assistance visit	State	no
09/10/2012	CAV: compliance assistance visit	State	no
09/06/2012	CAV: compliance assistance visit	State	no
08/28/2012	CAV: compliance assistance visit	State	no
08/24/2012	CAV: compliance assistance visit	State	no
08/16/2012	CAV: compliance assistance visit	State	no
08/15/2012	CAV: compliance assistance visit	State	no
08/08/2012	CAV: compliance assistance visit	State	no
08/08/2012	CAV: compliance assistance visit	State	no
08/02/2012	CAV: compliance assistance visit	State	no
07/31/2012	CAV: compliance assistance visit	State	no
07/25/2012	CAV: compliance assistance visit	State	no
07/23/2012	CAV: compliance assistance visit	State	no
07/18/2012	CAV: compliance assistance visit	State	no
07/18/2012	CAV: compliance assistance visit	State	no
07/12/2012	CSE: compliance schedule evaluation	State	yes
07/11/2012	CAV: compliance assistance visit	State	no
07/11/2012	CAV: compliance assistance visit	State	no
07/05/2012	CAV: compliance assistance visit	State	no
06/29/2012	CAV: compliance assistance visit	State	no
06/28/2012	FCI: focused compliance inspection	State	unknown
06/27/2012	CAV: compliance assistance visit	State	no
06/21/2012	CAV: compliance assistance visit	State	no
06/14/2012	CAV: compliance assistance visit	State	no
06/13/2012	CAV: compliance assistance visit	State	no
06/07/2012	CAV: compliance assistance visit	State	no
06/05/2012	CAV: compliance assistance visit	State	no
05/30/2012	CAV: compliance assistance visit	State	no
05/30/2012	CAV: compliance assistance visit	State	no
05/29/2012	CAV: compliance assistance visit	State	no
05/18/2012	FCI: focused compliance inspection	State	yes
05/17/2012	CAV: compliance assistance visit	State	no
05/16/2012	CAV: compliance assistance visit	State	no
05/16/2012	CAV: compliance assistance visit	State	no
05/09/2012	CAV: compliance assistance visit	State	no
05/08/2012	CAV: compliance assistance visit	State	no
05/04/2012	CAV: compliance assistance visit	State	no
05/02/2012	CAV: compliance assistance visit	State	no

Facility History (continued)

Other Inspections Since 1/1/2008 (most recent first) — Number of inspections: 233

Inspection Date	Inspection Type	Inspecting Agency	Violations Found
04/25/2012	CAV: compliance assistance visit	State	no
04/25/2012	CAV: compliance assistance visit	State	no
04/19/2012	CAV: compliance assistance visit	State	no
04/18/2012	CAV: compliance assistance visit	State	no
04/11/2012	CAV: compliance assistance visit	State	no
04/04/2012	CAV: compliance assistance visit	State	no
04/04/2012	CAV: compliance assistance visit	State	no
04/04/2012	CAV: compliance assistance visit	State	no
03/28/2012	CAV: compliance assistance visit	State	no
03/27/2012	CAV: compliance assistance visit	State	no
03/22/2012	CAV: compliance assistance visit	State	no
03/22/2012	CAV: compliance assistance visit	State	no
03/21/2012	CAV: compliance assistance visit	State	no
03/21/2012	CAV: compliance assistance visit	State	no
03/21/2012	CAV: compliance assistance visit	State	no
03/13/2012	CAV: compliance assistance visit	State	no
03/08/2012	CAV: compliance assistance visit	State	no
03/07/2012	CAV: compliance assistance visit	State	no
03/07/2012	FCI: focused compliance inspection	State	yes
02/23/2012	CAV: compliance assistance visit	State	no
02/14/2012	CAV: compliance assistance visit	State	no
02/13/2012	CAV: compliance assistance visit	State	no
02/13/2012	CAV: compliance assistance visit	State	no
01/25/2012	CAV: compliance assistance visit	State	no
01/24/2012	CAV: compliance assistance visit	State	no
01/05/2012	CAV: compliance assistance visit	State	no
01/04/2012	CAV: compliance assistance visit	State	no
12/22/2011	CAV: compliance assistance visit	State	no
12/21/2011	CAV: compliance assistance visit	State	no
12/15/2011	CAV: compliance assistance visit	State	no
12/14/2011	CAV: compliance assistance visit	State	no
12/14/2011	CAV: compliance assistance visit	State	no
12/09/2011	CAV: compliance assistance visit	State	no
11/29/2011	CAV: compliance assistance visit	State	no
11/17/2011	CAV: compliance assistance visit	State	no
11/15/2011	CAV: compliance assistance visit	State	no
11/09/2011	CAV: compliance assistance visit	State	no
11/07/2011	CAV: compliance assistance visit	State	no
10/31/2011	CAV: compliance assistance visit	State	no
10/27/2011	CAV: compliance assistance visit	State	no
10/19/2011	CAV: compliance assistance visit	State	no
10/18/2011	FUI: follow-up inspection	State	no
10/17/2011	CAV: compliance assistance visit	State	no
10/13/2011	CAV: compliance assistance visit	State	no

Facility History (continued)

Other Inspections Since 1/1/2008 (most recent first)			Number of Inspections: 233
Inspection Date	Inspection Type	Inspecting Agency	Violations Found
10/12/2011	CAV: compliance assistance visit	State	no
10/11/2011	CAV: compliance assistance visit	State	no
09/29/2011	CAV: compliance assistance visit	State	no
09/26/2011	CAV: compliance assistance visit	State	no
09/20/2011	FCI: focused compliance inspection	State	no
09/20/2011	CEI: compliance evaluation inspection on-site	EPA Oversight	no
09/20/2011	FCI: focused compliance inspection	State	no
09/20/2011	CEI: compliance evaluation inspection on-site	EPA Oversight	no
09/20/2011	FCI: focused compliance inspection	State	no
09/20/2011	CEI: compliance evaluation inspection on-site	EPA Oversight	no
09/20/2011	CEI: compliance evaluation inspection on-site	State	yes
08/23/2011	CAV: compliance assistance visit	State	no
08/23/2011	CAV: compliance assistance visit	State	no
08/03/2011	CAV: compliance assistance visit	State	no
08/03/2011	CAV: compliance assistance visit	State	no
07/27/2011	CAV: compliance assistance visit	State	no
07/14/2011	CAV: compliance assistance visit	State	no
07/06/2011	CAV: compliance assistance visit	State	no
06/15/2011	CEI: compliance evaluation inspection on-site	State	no
06/09/2011	CAV: compliance assistance visit	State	no
06/07/2011	CAV: compliance assistance visit	State	no
05/31/2011	CAV: compliance assistance visit	State	no
05/25/2011	CAV: compliance assistance visit	State	no
05/24/2011	NRR: non-financial record review	State	yes
05/17/2011	CAV: compliance assistance visit	State	no
05/10/2011	CAV: compliance assistance visit	State	no
05/03/2011	CAV: compliance assistance visit	State	no
04/29/2011	CAV: compliance assistance visit	State	no
04/26/2011	CAV: compliance assistance visit	State	no
04/22/2011	CAV: compliance assistance visit	State	no
04/19/2011	CAV: compliance assistance visit	State	no
04/15/2011	CAV: compliance assistance visit	State	no
04/14/2011	CAV: compliance assistance visit	State	no
04/12/2011	CAV: compliance assistance visit	State	no
03/31/2011	CAV: compliance assistance visit	State	no
03/30/2011	CAV: compliance assistance visit	State	no
03/29/2011	CAV: compliance assistance visit	State	no
03/25/2011	CEI: compliance evaluation inspection on-site	EPA	yes
03/25/2011	CAV: compliance assistance visit	State	no
03/25/2011	CAV: compliance assistance visit	State	no
03/15/2011	CAV: compliance assistance visit	State	no
03/10/2011	CAV: compliance assistance visit	State	no
02/15/2011	FCI: focused compliance inspection	State	no
01/24/2011	CAV: compliance assistance visit	State	no

Facility History (continued)

Other Inspections Since 1/1/2008 (most recent first) — Number of Inspections: 233

Inspection Date	Inspection Type	Inspecting Agency	Violations Found
09/22/2010	CEI: compliance evaluation inspection on-site	State	no
09/22/2010	CEI: compliance evaluation inspection on-site	EPA Oversight	no
09/16/2010	FCI: focused compliance inspection	State	no
08/13/2010	FCI: focused compliance inspection	State	no
08/11/2010	CAC: corrective action compliance evaluation	State	no
08/09/2010	FCI: focused compliance inspection	State	no
07/30/2010	NRR: non-financial record review	State	no
04/15/2010	FCI: focused compliance inspection	EPA	no
02/02/2010	FCI: focused compliance inspection	State	no
02/02/2010	FCI: focused compliance inspection	State	no
02/02/2010	FCI: focused compliance inspection	State	no
10/30/2009	FCI: focused compliance inspection	State	no
07/21/2009	CEI: compliance evaluation inspection on-site	State	yes
04/14/2009	FCI: focused compliance inspection	State	yes
04/14/2009	CEI: compliance evaluation inspection on-site	EPA Oversight	no
11/05/2008	FCI: focused compliance inspection	State	yes
09/24/2008	CEI: compliance evaluation inspection on-site	EPA	yes
08/14/2008	FCI: focused compliance inspection	State	no
06/10/2008	FCI: focused compliance inspection	State	no
05/12/2008	FCI: focused compliance inspection	State	yes
04/22/2008	CEI: compliance evaluation inspection on-site	State	no
04/22/2008	CEI: compliance evaluation inspection on-site	EPA Oversight	no
03/28/2008	CSE: compliance schedule evaluation	State	no

Violations Since 1/1/2008 (most recent first) — Number of violations: 46

Date Determined	Violation Type	Determining Agency	Citation	Actual RTC Date
12/11/2012	XXS : state statute or regulation	EPA		none
	Operation of 16 TSD unites (excluding two unites covered in Ecology enforcement action) without authorization.			
12/11/2012	PCR : permit condition or requirement	EPA		none
	WAC 173-303-830(4)(b). Failure to request a permit modification.			
12/11/2012	PCR : permit condition or requirement	EPA		none
	WAC 173-303-805(7). Failure to follow rules for changes under interim status.			
12/11/2012	PCR : permit condition or requirement	EPA		none
	WAC 173-303-610(c). Failure to notify Ecology of partial closure when a unit has not received waste for over a year.			
12/11/2012	265.G : tsd is-closure/post-closure	EPA		none
	WAC 173-303-400(3)(a). Failure to have written closure plan for an interim status facility that describes how each hazardous waste management unit will be closed.			
12/11/2012	PCR : permit condition or requirement	EPA		none
	WAC 173-303-200(1)(b)(ii). Failure to appropriately accumulate hazardous waste in tanks.			
11/13/2012	PCR : permit condition or requirement	State		none
	12.463 Permit Number WA7890008967 Rev 8C Condition I.E.10.c states that "the Permittees will retain at the Facility, or other approved location, records of all monitoing and mainteance recores, copies of all reports and records required by			

Facility History (continued)

Violations Since 1/1/2008 (most recent first) — **Number of violations: 46**

Date Determined	Violation Type	Determining Agency	Citation	Actual RTC Date
11/13/2012	PCR : permit condition or requirement	State		none
	12.463 Rev 8C Fondition II.L.1 Porper Design and Construction, states the "the Permittees will design, construct, maintain, and operate the Facility to minimize the possibility of fire, explosion, or any unplanned sudden or non-sudden rele			
07/12/2012	XXS : state statute or regulation	State		11/19/12
	12.435 HFFACO M-047-06 requires USDOE to "complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00. Such interim milestones shall be consistant with milestones established unde			
05/18/2012	PCR : permit condition or requirement	State		none
	12.422 WAC 173-303-645(5),(11)(b), Permit groundwater corrective action plan and groundwater monitoring plan. Permit concentration limits for dangerous waste constiuents were exceeded. corrective action plan for groundwater monitoring need			
03/20/2012	PCR : permit condition or requirement	EPA		none
	Potential violation of Permit condition 1.A.1, Permit condition 1.E.12.			
03/20/2012	268.A : ldr - general	EPA		none
	WAC 173-303-140(2)(a)			
03/07/2012	262.C : generators - pre-transport	State		none
	12.382 Failure to timely notify ECY of a release to the environment under spill notification. A release from box 231-Z-DR-11 was sicovered through routine radiological monitoring and ECY was not contacted.			
03/07/2012	262.C : generators - pre-transport	State		none
	12.382 Failure to take appropriate and immediate mitigation and control actions after a spill or discharge. CWC did not have spill containment pans available immediately for mitigating the release of box 231-Z-DR-11.			
03/07/2012	262.A : generators - general	State		none
	12.382 Failure to designate waste according to required procedures. USDOE and CHPRC failed to designate the drums holding liquieds collected from box 231-A-DR-11 release with the box listings.			
03/07/2012	264.B : tsd - general facility standards	State		none
	12.382 Failure to inspect adequately to detect deterioration of a container. CWC failed to perform dangerous waste inspections at the CWC expansion area so as to prevent malfunction and discharges.			
03/07/2012	264.B : tsd - general facility standards	State		none
	12.382 Failure to conduct daily inspections of areas subject to spills and often enough to identify problems in time to correct them before they harm human health and the environment.			
03/07/2012	264.C : tsd - preparedness and prevention	State		none
	12.382 Failure to provide or maintain spill control equipment in dangerous waste storage areas. CWC outdoor expansion area has no secondary containment, roof cover, or adequate container covers.			
03/07/2012	262.C : generators - pre-transport	State		none
	12.382 Failure to maintain containers in good condition. The box 231-Z-DR-11 shows signs of severe rust and deterioration and not adequately stored for outdooors.			
03/07/2012	XXS : state statute or regulation	State		none
	12.382 Failure to adequately label containers with the major risk and/or to maintain identification of conatainers. Also WAC 173-303-320			
03/07/2012	XXS : state statute or regulation	State		none
	12.382 Failure to provide an adequate secondary continment system.			
03/07/2012	264.B : tsd - general facility standards	State		none
	12.382 An owner or operator must confirm knowlege about a dangerous waste before it is treated, stored, or disposed. CWC failed to confirm the contents of box 213-Z-DR-11 and relied on acceptable knowledge.			
03/07/2012	261.C : listing - characteristics	State		none
	12.382 Failure to obtain samples in accordance with procedures designed to yield represenative analytical results of an acceptable quality required by the analytical methods. Facility samples were placed in inappropriate sample bottles a			
03/07/2012	264.I : tsd - container use and management	State		none
	12.392 Fialure to properly store box 231-Z-DR-11. The box is stored in the open subject to extreme weather conditions and without cover or containment.			

Enforcements Since 1/1/2008 (most recent first) — **Number of enforcements: 12**

Facility History (continued)

Violations Since 1/1/2008 (most recent first) — **Number of violations: 46**

Date Determined	Violation Type	Determining Agency	Citation	Actual RTC Date
03/07/2012	265.E : tsd is-manifest/records/reporting	State		none
	12.382 Failure to provide operating records upon request from ECY. USDOE denied ECY access to CWC operation records many times (5 different visits) and this caused delays in the investigation.			
03/07/2012	264.B : tsd - general facility standards	State		none
	12.382 Failure to immeadiately remedy problems revealed during the inspection of box 231-Z-DR-11. CWC failed to respond timely and take remedial action in response to the release from box 231-Z-DR-11.			
03/07/2012	270.D : permits - changes	State		none
	12.382 Failure to request a permit modification from ECY to add the expansion area to the CWC TSD Unit group; failure to notify ECY of planned physical alterations and additions to the CWC TSD unit group. CWC added a new unit, expansion			
09/20/2011	PCR : permit condition or requirement	State		none
	11.344 Permit Conditions III.16.B.1, III.16.O.1.b, I.E.20, since June of 2009, 400 area WMU ISA was storing a dangerous waste NaK that was not included in Rev 8C permit, and for which 400 area WMU had not submitted a request for a permit			
09/20/2011	PCR : permit condition or requirement	State		none
	11.344 III.16.J.2, 40 CFR 268.50 by reference in WAC 173-303-140 NaK waste had been stored at the 400 Area WMU ISA since June 2009. The waste has been stored for more than one year. The USDOE 2010 Hanford Site Mixed Waste Disposal Rest			
09/20/2011	PCR : permit condition or requirement	State		none
	Permit conditions I.E.1, II.O.1, III.16.H, and addendum I, Inspections. FFTF personned failed to perform weely inspections at the FSF and ISA WMU storage areas. FFTF personnel were performing semi-annual inspections at FSF and ISA althoug			
09/20/2011	PCR : permit condition or requirement	State		none
	11.344 FFTF personnel faild to submit a class 2 permit modification for a change in the ISA DWMU. Email exchanges between ECY and USDOE, Mike Collins, state building 432A located with the ISA DWMU is not authorized for mixed waste managem			
09/20/2011	PCR : permit condition or requirement	State		none
	11.344 FFTF personnel faild to submit a Class 1 permit modification for a change in the location of the facility operation record. During the inspection, ECY was directed to MO-294 building for review of FFTF records. This location was n			
05/24/2011	265.J : tsd is-tank system standards	State		09/26/11
	11.328 the document reviewed did not fulfill milestone M-045-100. The milestone required the Permittee to provide, as a primary document, a leak response plan that would include sufficient evaluation and criteria information to allow for t			
07/21/2009	PCR : permit condition or requirement	State		08/23/10
	Permit Violations for training, modification process and inspections. Both violations were resolved through documents submitted and approved in permit modifications. All violations resolved on 8/23/2010.			
04/14/2009	265.A : tsd is-general	State		none
	Violation for storing containers with unknown liquids on the same secondary containment.			
03/03/2009	273.C : universal waste - large quantity handlers	EPA		10/07/09
	FAILURE TO PROPERLY LABEL UNIVERSAL WASTE LAMPS. WAC173-303-573(21)(d).			
03/03/2009	273.C : universal waste - large quantity handlers	EPA		10/07/09
	FAILURE TO PROPERLY DATE UNIVERSAL WASTE LAMPS. WAC 173-303-573 (22)(c).			
03/03/2009	273.C : universal waste - large quantity handlers	EPA		10/07/09
	FAILURE TO PROPERLY LABEL UNIVERSAL WASTE BATTERIES. WAC 173-303-573(21)(a).			
03/03/2009	273.C : universal waste - large quantity handlers	EPA		10/07/09
	FAILURE TO PROPERLY DATE UNIVERSAL WASTE BATTERIES. WAC 173-303-573(22)(c).			
11/05/2008	264.I : tsd - container use and management	State		11/06/08
	Hanford RCRA Permit violation (rev. 8C, Condition III,15.A), Inspections			
11/05/2008	264.B : tsd - general facility standards	State		11/06/08
	Hanfrod RCRA Permit violation (rev. 8C,condition II.C.1), Training			
05/12/2008	264.E : tsd - manifest/records/reporting	State		08/18/08
	Violation for transporting hazardous waste without a Manifest			

Enforcements Since 1/1/2008 (most recent first) — **Number of enforcements: 12**

Facility History (continued)

Violations Since 1/1/2008 (most recent first) — Number of violations: 46

Date Determined	Violation Type	Determining Agency	Citation	Actual RTC Date
05/12/2008	264.E : tsd - manifest/records/reporting Violation for transporting hazardous waste without a Manifest	State		08/18/08
05/12/2008	264.E : tsd - manifest/records/reporting Violation for transporting hazardous waste without a Manifest	State		08/18/08
05/12/2008	264.E : tsd - manifest/records/reporting Violation for transporting hazardous waste without a Manifest	State		08/18/08
05/12/2008	264.E : tsd - manifest/records/reporting Violation for transporting hazardous waste without a Manifest	State		08/18/08

Enforcements Since 1/1/2008 (most recent first) — Number of enforcements: 12

Enforcement Date	Enforcement Type	Enforcement Agency
06/26/2013	210: initial 3008(a) compliance	EPA
06/26/2013	310: final 3008(a) compliance order	EPA
06/17/2013	120: written informal	State
11/13/2012	120: written informal	State
11/13/2012	120: written informal	State
07/12/2012	313: executed stipulation agreement	State
07/02/2012	120: written informal	State
03/20/2012	140: warning letter	EPA
05/24/2011	120: written informal	State
03/03/2009	120: written informal	EPA
02/18/2009	120: written informal	State
09/18/2008	120: written informal	State

ATTACHMENT C: Photograph Log for Hanford-LERF/ETF RCRA inspection

(all photos taken by Kristin McNeill on August 20, 2013 using a Panasonic DMC-FH25 camera)

P1000298. LERF basin 42

P1000299. LERF basin 43

P1000300. 90-day area at LERF basin 44 for vegetation removal

P1000301. unlabeled supersack in basin 44 90-day area with unknown contents

P1000302. LERF basin 44

P1000303. LERF basin 44

P1000304. roll-off container for vegetation removal from basin 44

P1000305. DOT label on roll-off in P1000304

P1000306. HW label on roll-off in P1000304

P1000307. air emissions carbon filter drum for basin 43

P1000308. air emissions carbon filter drum for basin 43 (same as P1000307)

P1000309. new carbon filter drum ready to replace drum in P1000307

P1000310. treatment system and tank for load-in building bay that was not originally RCRA permitted (permitted now)

P1000311. two tanks outside load-in building (tanks for bay that was originally RCRA permitted)

P1000312. label on tank in foreground in P1000311

P1000313. label on tank in P1000310 (poor lighting)

P1000314. label on tank in P1000310

P1000315. overview of ETF

P1000316. overview of ETF

P1000317. ETF process area waste container: low-level mixed waste container in metal box with vent holes, yellow tarp over inside container

P1000318. label on metal box holding the low-level mixed waste container in ETF building from P1000317 (blurry)

P1000319. label on metal box holding the low-level mixed waste container in ETF building from P1000317; waste codes: F001, F002, F003, F004, F005, F039

P1000320. ETF process area waste container: low-level mixed waste container for carbon absorbers (in sealed boxes under yellow tarp)

P1000321. ETF process area waste containers: totes containing sludge from clean-out of sumps in ETF building

P1000322. drum handling room for dryer/powder system in ETF building (behind red doors)

P1000323. label on drum from lab in ETF inside container storage area – ASD 7/3/2012

P1000324. label on drum from lab in ETF inside container storage area – ASD 7/5/2012

P1000325. label on drum from lab in ETF inside container storage area – ASD 5/17/2012

P1000326. label on small drum in ETF inside container storage area (blurry – see P1000328)

P1000327. drum from lab in ETF inside container storage area – bulging lid compared to other drums

P1000328. label on small drum in ETF inside container storage area (see P1000326) – ASD 10/20/2011, waste codes: D002, D007; container was overpack for a 1-2 gallon container holding acidic moisture removed from a pipeline at PUREX, according to Linda Peterson

P1000329. same drum as P1000330, labeled as used oil

P1000330. same drum as P1000329, labeled as "empty 5-18-12, glass debris"

P1000331. overview of ETF inside container storage area – black drums contain powder generated in the ETF process; blue drums are waste drums from the lab to be put into the ETF process

P1000332. ETF process area waste container: low-level mixed waste container for waste large parts; waste codes: F001, F002, F003, F004, F005

P1000333. used oil container in ETF process area with inventory book

P1000334. ETF outside container storage area on the east side of the ETF building at the southeast corner of the building

P1000335. ETF outside container storage area near verification tanks north of the ETF building: blue drums are empty – to be returned to the lab; white supersacks are full of maintenance waste, small parts, PPE, etc. (waste codes: F001, F002, F003, F004, F005, F039) – waiting to get 10 before sending them to ERDF

P1000336. 3 verification tanks on the north side of the ETF building

P1000337. universal waste cabinet outside to the east of the ETF building

P1000338. close-up of label on a drum from P1000334 – ASD: 5/12/12

P1000339. close-up of label on a drum from P1000334 – ASD: 5/21/12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ATTACHMENT D

LERF 90 day accumulation container photos

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

U.S. ENVIRONMENTAL PROTECTION AGENCY TSD INSPECTION OF THE 200 EAST AREA LIQUID EFFLUENT RETENTION FACILTIY AND 200 AREA EFFLUENT TREATMENT FACILITY AUGUST 20, 2013

LERF Basin - Covered "Maverick" Container in 90-Day Accumulation Area

Unknown if hazardous waste is in this "Maverick" since there was a radioactive label but no Hazardous Waste Label.

Maverick Container

Internal view of Maverick – no waste was identified the yellow bag holds parts for pumping activities at the LERF Basins

ATTACHMENT E

LERF basin 44 roll off box photos

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

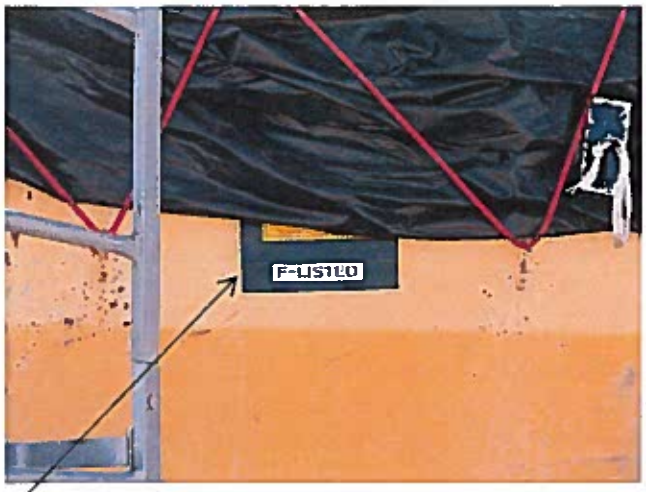
2013 RCRA Inspection Report

U.S. ENVIRONMENTAL PROTECTION AGENCY TSD INSPECTION OF THE 200 EAST AREA LIQUID EFFLUENT RETENTION FACILTIY AND 200 AREA EFFLUENT TREATMENT FACILITY AUGUST 20, 2013

The following are the photographs of issues and resolutions that the U.S. Environmental Protection Agency identified during the TSD inspection that was performed at the 200 East Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility on August 20, 2013.

LERF Basin - ERDF Load-Out Container

Hazardous Waste label partially covered.



Hazardous Waste Label covered by protective tarp

Hazardous Waste Label – Tarp moved to uncover label

ATTACHMENT F

Inventory of drums for the storage unit inside the ETF

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

ETF CURRENT DRUM INVENTORY (As of August 21, 2013)

Count	Source	Drum Number	Pallet	Volume	Date Received
1	PUREX	CP-11-17A	DS-01	5	1/17/2012
2	WSCF	6266-12R102586	DS-04	55	7/17/2012
3	WSCF	6266-12R402591	DS-04	55	7/17/2012
4	WSCF	6266-12R402592	DS-04	55	7/17/2012
5	WSCF	6266-12R302594	DS-04	55	7/17/2012
6	WSCF	6266-12R102590	DS-02	55	8/13/2012
7	WSCF	6266-12-002595	DS-02	55	8/13/2012
8	WSCF	6266-12R102597	DS-02	55	8/13/2012
9	WSCF	6266-12R302599	DS-02	55	8/13/2012
10	WSCF	6266-12R302602	DS-08	55	8/13/2012
11	WSCF	6266-12R102603	DS-08	55	9/18/2012
12	WSCF	6266-12R202617	DS-08	55	9/18/2012
13	WSCF	6266-12R302629	DS-08	55	9/18/2012
14	WSCF	6266-12R602600	DS-09	55	9/18/2012
15	WSCF	6266-12R502601	DS-09	55	9/18/2012
16	WSCF	6266-12R302627	DS-09	55	9/18/2012
17	WSCF	6266-12-002700	DS-06	55	4/23/2013
18	WSCF	6266-13R402709	DS-06	55	4/23/2013
19	WSCF	6266-13R202718	DS-06	55	4/23/2013
20	WSCF	6266-13R502720	DS-06	55	4/23/2013
21	WSCF	6266-13R302711	DS-10	55	4/23/2013
22	WSCF	6266-13R202712	DS-10	55	4/23/2013
23	WSCF	6266-13R202719	DS-10	55	4/23/2013
24	WSCF	6266-13R202725	DS-10	55	4/23/2013
25	WSCF	6266-13R302721	DS-03	55	5/30/2013
26	WSCF	6266-13R202729	DS-03	55	5/30/2013
27	WSCF	6266-13-002735	DS-03	55	5/30/2013
28	WSCF	6266-13R402739	DS-03	55	5/30/2013
29	WSCF	6266-13R302726	DS-05	55	5/30/2013
30	WSCF	6266-13R302728	DS-05	55	5/30/2013
31	WSCF	6266-13R302734	DS-05	55	5/30/2013
32	WSCF	6266-13-002736	DS-05	55	5/30/2013
33	WSCF	6266-13R202727	DS-07	55	5/30/2013
34	WSCF	6266-13R202731	DS-07	55	5/30/2013
35	WSCF	6266-13-002722	DS-11	55	7/9/2013
36	WSCF	6266-13R202730	DS-11	55	7/9/2013
37	WSCF	6266-13R302741	DS-11	55	7/9/2013
38	WSCF	6266-13R402752	DS-11	55	7/9/2013
39	WSCF	6266-13-002738	DS-12	55	7/9/2013
40	WSCF	6266-13R202742	DS-12	55	7/9/2013
41	WSCF	6266-13R202746	DS-12	55	7/9/2013
42	WSCF	6266-13R302749	DS-12	55	7/9/2013
43	Sample Return from 222-S	0088781	DS-13	55	7/17/2013
44	WSCF	6266-13R502747	DS-14	55	7/30/2013
45	WSCF	6266-13R402761	DS-14	55	7/30/2013
46	WSCF	6266-13R402762	DS-14	55	7/30/2013

ETF CURRENT DRUM INVENTORY (As of August 21, 2013)

Count	Source	Drum Number	Pallet	Volume	Date Received
47	WSCF	6266-13R302764	DS-14	55	7/30/2013
48	WSCF	6266-13R302755	DS-15	55	7/30/2013
49	WSCF	6266-13R302756	DS-15	55	7/30/2013
50	WSCF	6266-13R202757	DS-15	55	7/30/2013
51	WSCF	6266-13R302766	DS-15	55	7/30/2013

ATTACHMENT G

Department of Energy letter explaining storage exceeding one year

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

13-AMRP-0314

SEP 25 2013

Mr. J. L. Boller
U.S. Environmental Protection Agency, Region 10
1200 Sixth Avenue, Suite 900 (AWT-122)
Seattle, Washington 98101

Dear Mr. Boller:

INFORMATION REQUESTED IN SUPPORT OF THE AUGUST 20-21, 2013, U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) TREATMENT, STORAGE, AND DISPOSAL (TSD) INSPECTION OF THE HANFORD FACILITY RESOURCE CONSERVATION AND RECOVERY ACT PERMIT: LIQUID EFFLUENT RETENTON FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY OPERATING UNIT GROUP 3 (200 EAST LERF/ETF)

On August 20 and 21, 2013, EPA along with the State of Washington Department of Ecology performed a TSD inspection at the 200 East LERF/ETF. During the August 21, 2013 inspection post-briefing EPA requested the following:

- Copies of documents that were identified during the inspection as enumerated in the list provided by EPA.
- Response to information requests from EPA during the TSD inspection.

The documents requested by EPA were placed into an electronic format on a compact disc and received by EPA on August 30, 2013. Additional information requested by EPA is attached.

If you have any questions, please contact me, or your staff may contact, Al Farabee, of my staff, on (509) 376-8089.

Sincerely,

Jonathan A. Dowell, Assistant Manager
for the River and Plateau

AMRP:MSC

Attachment

cc: See Page 2

SEP 2 5 2013

cc w/attach:
G. Bohnee, NPT
R. Buck, Wanapum
L. M. Dittmer, CHPRC
R. H. Engelmann, CHPRC
D. A. Faulk, EPA
L. E. Gadbois, EPA
S. Harris, CTUIR
J. A. Hedges, Ecology
S. Hudson, HAB
R. Jim, YN
R. A. Kaldor, MSA
K. McNeill, EPA Region 10
N. M. Menard, Ecology
K. Niles, ODOE
T. W. Noland, MSA
R. E. Piippo, MSA
R. S. Popielarczyk, CHPRC
D. Rowland, YN
K. Schanilec, EPA Region 10
Administrative Record
Environmental Portal

Attachment

EPA Request: A "blue drum" (PIN# 6266-13R02721) that has liquid waste from Waste Sampling and Characterization Facility (WSCF), the lid on the drum seemed to be "bulging."

DOE Response: The 200 East LERF/ETF operations vented the blue drum in question and found that the drum was not pressurized. The blue drums are made of high density polyethylene plastic and are re-used several times for transporting liquid waste from WSCF laboratory processes to 200 East LERF/ETF for treatment. After the liquid waste is removed from the blue drums, they are shipped back to WSCF for re-use. At WSCF, if the drums are found to be not usable they are disposed of in accordance with regulatory requirements. The blue drums over a period time can slightly bend and that tends to make the drums appear that they are "bulging." Receipt inspections are performed to ensure that the drums meet storage requirements. Also, the blue drums are inspected weekly in accordance with procedure POP-60K-005, Inspect Waste Management Areas (Item 13 in the documents provided to the EPA on August 30, 2013).

EPA Request: EPA requested information on the land disposal restriction (LDR) treatment exemption that was approved for the LERF Basins.

DOE Response: The following are attached indicating the approval for the LDR treatment exemption for the LERF Basins:

Enclosure 1: Hanford Facility RCRA Permit Revision 8C, Part III Operating Unit Group 3, LERF and 200 Area ETF, Addendum B Waste Analysis, Section B.3.1 Land Disposal Restriction Compliance at Liquid Effluent Retention Facility, pages 3.15 and 3.16, dated March 31, 2013.

Enclosure 2: Letter, Mr. Robert J. Julian, Ecology to Mr. Thomas K. Teynor, DOE and Mr. Anthony J. DiLiberto, Westinghouse Hanford Company, subject: "The Washington State Department of Ecology (Ecology) Regulatory Interpretation of Liquid Effluent Retention Facility (LERF) Land Disposal Restrictions Exemption," dated September 9, 1996.

Enclosure 3: Letter, Mr. Daniel Duncan, EPA, to Ms. June Henning, DOE, subject: "Liquid Effluent Retention Facility (LERF) Land Disposal Restrictions Treatment Exemption – Regulatory Interpretation, EPA/Ecology ID No: WA7 89000 8967," dated December 6, 1994.

EPA Request: Provide a basis to justify storage of liquid and powder drums at ETF 2025E inside and outside storage areas for greater than one year per the storage prohibition of the Land Disposal Restrictions (LDR) regulatory requirements for disposal.

DOE Response: The storage of ETF Powder and WSCF Drums at LERF/ETF complies with all applicable laws for both legal and factual reasons:

1) Legal Reasons: The LDR prohibition on extended hazardous waste storage does not apply to these mixed waste streams:

Attachment

a. Extended storage of mixed wastes by U.S. Department of Energy (DOE) facilities was made possible by the Federal Facility Compliance Act of 1992 (FFCA) (42 USC 6961 Note, Section 102(c) of Pub.L. 102-386). The U.S. Congress recognized the difficulty in arranging for the treatment and disposal of mixed wastes. This law exempts DOE from liability under the extended storage prohibition on LDR wastes in 42 USC 6924(j) as long as the mixed waste is managed in accordance with 42 USC 6939c, which requires DOE facilities to develop site treatment plans (STP) that eventually allow for treating mixed wastes so they can be disposed in accordance with the LDR program. States with delegated LDR enforcement authority approve the STP for non-transuranic mixed waste at each DOE facility. The legal method of this exemption is to remove Section 6924(j) from the Federal agency waiver of sovereign immunity in RCRA (Section 6961). In other words, as long as DOE is fulfilling the STP requirement to invest its resources into a rational plan for management, treatment and disposal of mixed waste, the presumptive time limit on storage of LDR waste does not legally apply to DOE. Section 6924(j) is not an enforceable part of RCRA for DOE mixed waste that meets the FFCA conditions.
b. At the Hanford Site, the FFCA STP requirement was addressed on March 29, 2000, by a joint Final Determination issued by EPA and Washington Department of Ecology (Ecology). This Final Determination specified that the annual LDR Report issued by DOE pursuant to Hanford Federal Facility Agreement and Consent Order (HFFACO) Milestones M-26-01 will serve as the unified sitewide Site Treatment Plan fulfilling the conditions of the FFCA allowing extended storage of mixed waste.
c. HFFACO Action Plan Milestone M-026-01 states, in part, that "DOE's annual Hanford Land Disposal Restrictions Report: 1) Will be equivalent to (i.e. shall meet all substantive requirements of) site treatment plans as required by the Federal Facility Compliance Act of 1992 (FFCA) and 2) shall meet all requirements of Ecology's Final Determination in this matter on March 29, 2000."
d. The CY 2012 LDR Report and site treatment plan includes both the LERF/ETF powder drums and liquid drums in inventory in 2012.
    i. Included in "LERF/ETF Liquid Waste" are 2,915 gallons of liquid in fifty three (53) drums waiting to be added to the ETF processing waste stream. This volume included the 5-gallon PUREX carboy and several 55-gallon drums of lab waste from the Waste Characterization and Sampling Facility (WSCF).
    ii. Included in "LERF/ETF Solid Waste" is 42.0 cubic meters, in 202 separate 55-gallon drums, of ETF powder awaiting transfer to ERDF or another treatment and/or disposal facility

2) Factual Reasons: DOE has been acting in good faith to minimize the time waste is stored at ETF.

   a. Drums containing powder residues from the drying process at ETF have been stored for more than one year prior to treatment and disposal for the following reasons:
      i. ETF powder that has been generated was previously believed to meet all LDR treatment standards, including the standard for chromium. Numerous investigations and steps have been taken to process the drums in compliance with LDR.
      ii. Based on an early 2012 review of the ETF powder that is generated in the treatment process, questions were asked about documentation that the ETF powder met the LDR treatment standards. Disposal has been delayed for technical evaluation of the ETF powder to demonstrate compliance with LDR.

          DOE and CH2M Hill Plateau Remediation Company met with representatives from Ecology, and both Region 10 EPA and Hanford Field Office EPA on three occasions in September 2012 to October 2012 to discuss the LDR treatment requirements for the powder, due to mixing of several incoming waste streams, which is allowed by the LERF-ETF WAP. Several scenarios were identified and evaluated as an outcome of these discussions, and it was concluded that treatment may be needed for the drums in storage for chromium, pending analysis of the contents.

          Subsequent testing confirmed that LDR treatment of the drums would be required.
      iii. The ETF powder remained in storage until development of an approved treatment plan to facilitate proper LDR-compliant treatment and disposal at the Environmental Retention Disposal facility (ERDF).
      iv. The light consistency or "flightiness" of the powder (i.e., the powder's tendency to become airborne when physically disturbed) raised a safety concern in treating this type of waste. An evaluation was initiated, to establish appropriate as low as reasonably achievable (ALARA) worker safety and emission controls during LDR compliant treatment.
      v. Bench-scale testing was also needed to establish Cr+ reduction ratios for proper ETF powder treatment to meet LDR standards.
         1. An initial mix 'recipe' failed to meet the toxicity characteristic leaching procedure (TCLP) standard for chromium in accordance with WAC 173-303-090.
         2. Alternative 'recipes' were developed and additional bench-scale testing was necessary.

      CHPRC has been working with ERDF to develop a treatment plan based on bench-scale testing.

vi. However, on August 27, 2013, a meeting was held between CHPRC ETF personnel and ERDF personnel where ERDF indicated the ETF powder would need to be "wetted" at ETF before ERDF could treat the powder waste for disposal. Since ETF cannot technically support wetting, plans have been made to ship the remaining F039 powder drums to a commercial TSD for the purpose of treating waste to meet LDR requirements by mid-September 2013.

b. WSCF drums have been in storage at ETF over one year for the following reasons:

I. Significant operational challenges had to be overcome to process the WSCF drums into ETF. WSCF began segregating F039 waste from non-F039 wastes. WSCF drums from July through September 2012 still carried the F039 waste code, but WSCF drums from October 2012 through March 2013 did not.

II. LERF Basin 44 waste was processed from May to July 2012. This waste carried the F039 code, but LERF/ETF Operations could not add the higher chromium WSCF drums during the campaign because the chromium level in the LERF Basin 44 waste was just below the LDR treatment standard.

III. LERF Basin 43 waste treatment started in early Sept 2012. Because this wastewater does not carry the F039 waste code, only WSCF drums not carrying the F039 waste code were added during this campaign. Forty-eight (48) WSCF drums were treated during this campaign.

IV. LERF Basin 42 waste treatment was scheduled to start in mid-November 2012. LERF/ETF Operations intended to add WSCF drums with the F039 waste code during this campaign. However, ETF did not process waste from LERF Basin 42 from September 2012 through January 2013 due to a major equipment repair issue.

V. LERF/ETF Operations started on LERF Basin 42 waste in May 2013 was six months behind schedule. But before LERF/ETF Operations could build up an inventory in the secondary treatment train in order to add the WSCF drum waste, the evaporator heater failed and ETF was shut down again for repairs. ETF restart was in early August 2013 and since restart, LERF/ETF Operations have been proceeding with WSCF drum waste addition into the system. LERF/ETF Operations added 16 WSCF drums with the F039 waste code before the August 20 and 21, 2013 EPA TSD inspection. LERF/ETF Operations are adding the older WSCF drums first, to work off the inventory of drums in storage at LERF/ETF for more than a year. The oldest WSCF drums on hand were received on July 17, 2012.

c. A PUREX waste drum has been in storage at ETF for over one year for the following reason:

Attachment

A single small 5-gallon carboy within a 30-gallon secondary containment drum of PUREX waste was received on January 17, 2012. Typically, the less-than 55-gallon waste drums are added to the process immediately on receipt., However, this PUREX waste drum has been delayed due to radiological safety and ALARA concerns affecting employees who would introduce this drum's waste into the ETF treatment process. Presently LERF/ETF Operations is working on a way to provide the required safety protocols to transfer the waste from the PUREX drum to the ETF treatment process.

Attachment – Enclosure 1

Table B.2. Waste Acceptance Criteria

General criteria category	Criteria description
1. Characterization	A. Each generator must provide an aqueous waste profile.
	B. Each generator must designate the aqueous waste stream.
	C. Each generator must provide analytical data and/or knowledge.
2. Regulatory acceptability	A. The LERF and 200 Area ETF can store and treat influent aqueous wastes with waste numbers identified in Addendum A for the LERF and 200 Area ETF, and the 200 Area ETF Delisting, 40 CFR 261, Appendix IX, Table 2.
	B. The aqueous waste must comply with conditions of the Discharge Permit.
3. Operational acceptability	A. Determine whether an aqueous waste stream is treatable, considering: 1. Whether the removal and destruction efficiencies on the constituents of concern will be adequate to meet the Discharge Permit and Delisting levels 2. Other treatability concerns; analyses for this evaluation may include: total dissolved solids — iron total organic carbon — magnesium total suspended solids — nitrate specific conductivity — nitrite alkalinity — phosphate ammonia — potassium barium — silicon calcium — sodium chloride — sulfate fluoride — pH
	B. Determine whether an aqueous waste stream is compatible, considering: 1. Whether an aqueous waste stream presents corrosion concerns with respect to ETF; analysis may include chloride and fluoride 2. Whether an aqueous waste stream is compatible with LERF liner materials, compare characterization data to the liner compatibility limits (Table B.1). 3. Whether an aqueous waste stream is compatible with other aqueous waste(s), 40 CFR 264, Appendix V, comparison will be used.

B.3 SPECIAL MANAGEMENT REQUIREMENTS

Special management requirements for aqueous wastes that are managed in the LERF or 200 Area ETF are discussed in the following section.

B.3.1 Land Disposal Restriction Compliance at Liquid Effluent Retention Facility

Because LERF provides treatment through flow and pH equalization, a surface impoundment treatment exemption from the land disposal restrictions was granted in accordance with 40 CFR 268.4, and WAC 173-303-040. This treatment exemption is subject to several conditions, including a requirement that the WAP address the sampling and analysis of the treatment 'residue' [40 CFR 268.4(a)(2)(i) and WAC 173-303-300(5)(h)(i) and (ii)] to ensure the 'residue' meets applicable treatment standards. Though the term 'residue' is not specifically defined, this condition further requires that sampling must be designed to represent the "sludge and the supernatant" indicating that a residue may have a sludge (solid) and supernatant (liquid) component.

Solid residue is not anticipated to accumulate in a LERF basin for the following reasons:

- Aqueous waste streams containing sludge would not be accepted into LERF under the acceptance criteria of treatability (Section B.2.2.2.1)
- No solid residue was reported from process condensate discharged to LERF in 1995

- The LERF basins are covered and all incoming air first passes through a breather filter
- No precipitating or flocculating chemicals are used in flow and pH equalization.
- Multiple waste streams managed in a single LERF basin are evaluated for the formation of precipitates. Wastes that would form precipitates are not accepted for treatment at LERF.

Therefore, the residue component subject to this condition is the supernatant (liquid component). Additionally, an aqueous waste stream is evaluated for the potential to deposit solids in a LERF basin (i.e., an aqueous waste that contains suspended solids). If necessary, filtration at the waste source could be required before acceptance into LERF. Therefore, the residue component in LERF subject to this condition is the supernatant (liquid component). The contingency for removal of solids will be addressed during closure in Addendum H, Closure Plan.

The conditions of the treatment exemption also require that treatment residues (i.e., aqueous wastes), which do not meet the LDR treatment standards "must be removed at least annually" [40 CFR 268.4(a)(2)(ii) incorporated by reference by WAC 173-303-140]. To address the conditions of this exemption, an influent aqueous waste is sampled and analyzed and the LDR status of the aqueous waste is established as part of the acceptance process. The LERF basins are then managed such that any aqueous waste(s), which exceeds an LDR standard is removed annually from a LERF basin, except for a heel of approximately 1 meter. A heel is required to stabilize the LERF liner. The volume of the heel is approximately 1.9 million liters.

B.4 INFLUENT AQUEOUS WASTE SAMPLING AND ANALYSIS

The following sections provide a summary of the sampling procedures, frequencies, and analytical parameters for characterization of influent aqueous waste (Section B.2) and in support of the special management requirements for aqueous waste in the LERF (Section B.3).

B.4.1 Sampling Procedures

With a few exceptions, generators are responsible for the characterization, including sampling and analysis, of an influent aqueous waste. Process condensate is either sampled at the 242-A Evaporator or accumulated in a LERF basin following a 242-A Evaporator campaign and sampled. Other exceptions will be handled on a case-by-case basis and the Hanford Facility Operating Record, LERF and 200 Area ETF File will be maintained at the unit for inspection by Ecology. The following section discusses the sampling locations, methodologies, and frequencies for these aqueous wastes. For samples collected at the LERF and 200 Area ETF, unit-specific sampling protocol is followed. The sample containers, preservation materials, and holding times for each analysis are listed in Section B.9.

B.4.1.1 Batch Samples

In those cases where an aqueous waste is sampled in a LERF basin, samples are collected from four of the six available sample risers located in each basin, i.e., four separate samples. When LERF levels are low, fewer than four samples can be taken if the sampling approach is still representative. Though there are eight sample risers at each basin, one is dedicated to liquid level instrumentation and another is dedicated as an influent port. Operating experience indicates that four samples adequately capture the spatial variability of an aqueous waste stream in the LERF basin. Specifically, sections of stainless steel (or other compatible material) tubing are inserted into the sample riser to an appropriate depth. Using a portable pump, the sample line is flushed with the aqueous waste and the sample collected. The grab sample containers typically are filled for volatile organic compounds (VOC) analysis first, followed by the remainder of the containers for the other parameters.

Several sample ports are also located at 200 Area ETF, including a valve on the recirculation line at 200 Area ETF surge tank, and a sample valve on a tank discharge pump line at 200 Area ETF Load-in Station. All samples are obtained at the LERF or 200 Area ETF are collected in a manner consistent with SW-846 procedures (EPA as amended).

Attachment – Enclosure 2

0074405

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

September 9, 1996

Mr. Thomas K. Teynor
U.S. Department of Energy
P.O. Box 550
Richland, WA 99352

Mr. Anthony J. DiLiberto
Westinghouse Hanford Company
P.O. Box 1970
Richland, WA 99352

Dear Messrs. Teynor and DiLiberto:

Re: The Washington State Department of Ecology (Ecology) Regulatory Interpretation of the Liquid Effluent Retention Facility (LERF) Land Disposal Restrictions Exemption

Ecology has determined the exemption, dated December 6, 1994, and done in accordance with the 40 CFR 268.4 treatment exemption provision, is applicable to wastes other than 'process condensate' from the 242-A Evaporator. All requirements of the December 6, 1994, letter still apply to N Reactor basin water, N Reactor emergency dump water, Westinghouse Environmental Services Facility waste water, Plutonium Uranium Extraction Facility caustic tank flush water, and 200-UP-1 groundwater.

In addition, the U.S. Department of Energy must ensure the constituents of the new wastes are compatible with the liner system of the LERF, and with any existing waste heel remaining in the LERF basins. This compatibility check can be reported in a unit manager's meeting and documented in the meeting minutes.

If you have any questions, please feel free to contact me at (509) 736-5702.

Sincerely,

Robert J. Jolivan
Unit Manager, Liquid Effluent Systems

RJJ:sdb

cc: Dave Bartus, EPA
Douglas Sherwood, EPA
Elizabeth Bowers, USDOE
Don Flyckt, WHC
Dale Lindsey, WHC

Attachment – Enclosure 3

START

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

December 6, 1994

Reply To
Attn. of: HW-106

June Hennig, Director
Waste Programs Division
Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

Re: Liquid Effluent Retention Facility (LERF)
Land Disposal Restrictions Treatment Exemption - Regulatory Interpretation
EPA/Ecology ID No: WA7 89000 8967

Dear Ms. Henning:

The United States Environmental Protection Agency, Region 10 ("EPA"), has reviewed applicability of the surface impoundment exemption from land disposal restriction ("LDR") regulations, codified at 40 CFR § 268.4, to the Liquid Effluent Retention Facility ("LERF"). EPA has determined that management of 242-A Evaporator Process Condensate in the LERF prior to treatment in the C-018 Effluent Treatment Facility ("ETF") is consistent with the regulatory definition of "treatment" at 40 CFR § 260.10 in the context of the 40 CFR § 268.4 treatment exemption. Thus, the 40 CFR § 268.4 treatment surface impoundment exemption is applicable to the LERF.

To qualify for the 40 CFR § 268.4 exemption, the Department of Energy - Richland Operations Office ("Energy") must also fully comply with the following requirements in 40 CFR § 268.4(a)(2): (i) Sampling and Testing; (ii) Annual Removal; (iii) Subsequent Management; and (iv) Recordkeeping. Finally, pursuant to 40 CFR § 268.4(a)(4), Energy must submit written certification to the EPA Region 10 Regional Administrator that the LERF surface impoundments meet the requirements of 40 CFR § 268.4(a)(3) as well as a copy of the LERF Waste Analysis Plan required under 40 CFR § 268.4(a)(2).

This letter addresses only the issue of the 40 CFR § 268.4 treatment exemption. The Washington State Department of Ecology ("Ecology") may impose other conditions or requirements through the Hanford Federal Facility RCRA Permit, or to comply with interim status requirements. These issues will be addressed directly by Ecology.

Should you have any questions or need any additional information, please feel free to contact Dave Bartus at (206) 553-2804 or myself at (206) 553-6693.

Sincerely,

Daniel Duncan

Daniel Duncan, Environmental Engineer
RCRA Permits Section

cc: Cliff Clark, Energy
Moses Jaraysi, Ecology
Steve Silverman, OGC-RCRA
Joe Witczak, Ecology

ATTACHMENT H

Figure C.2 and C.3 from Permit

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

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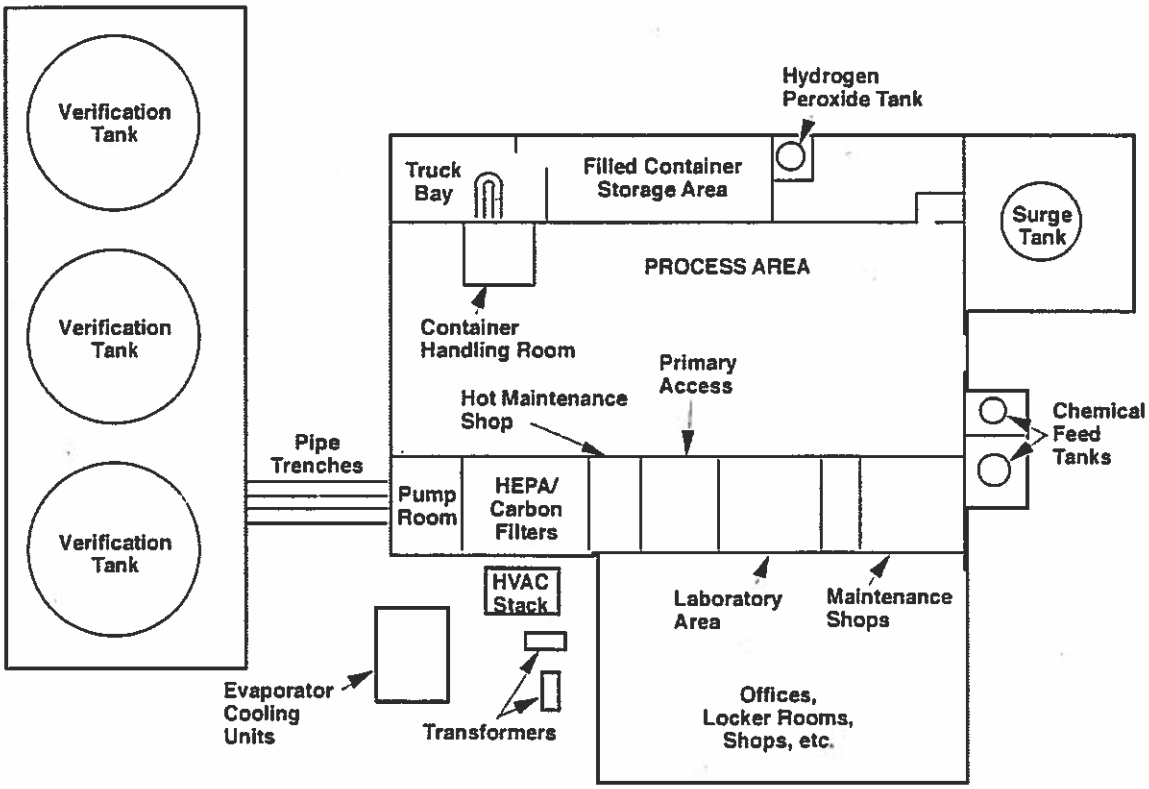
Figure C.2. Plan View of the 200 Area Effluent Treatment Facility



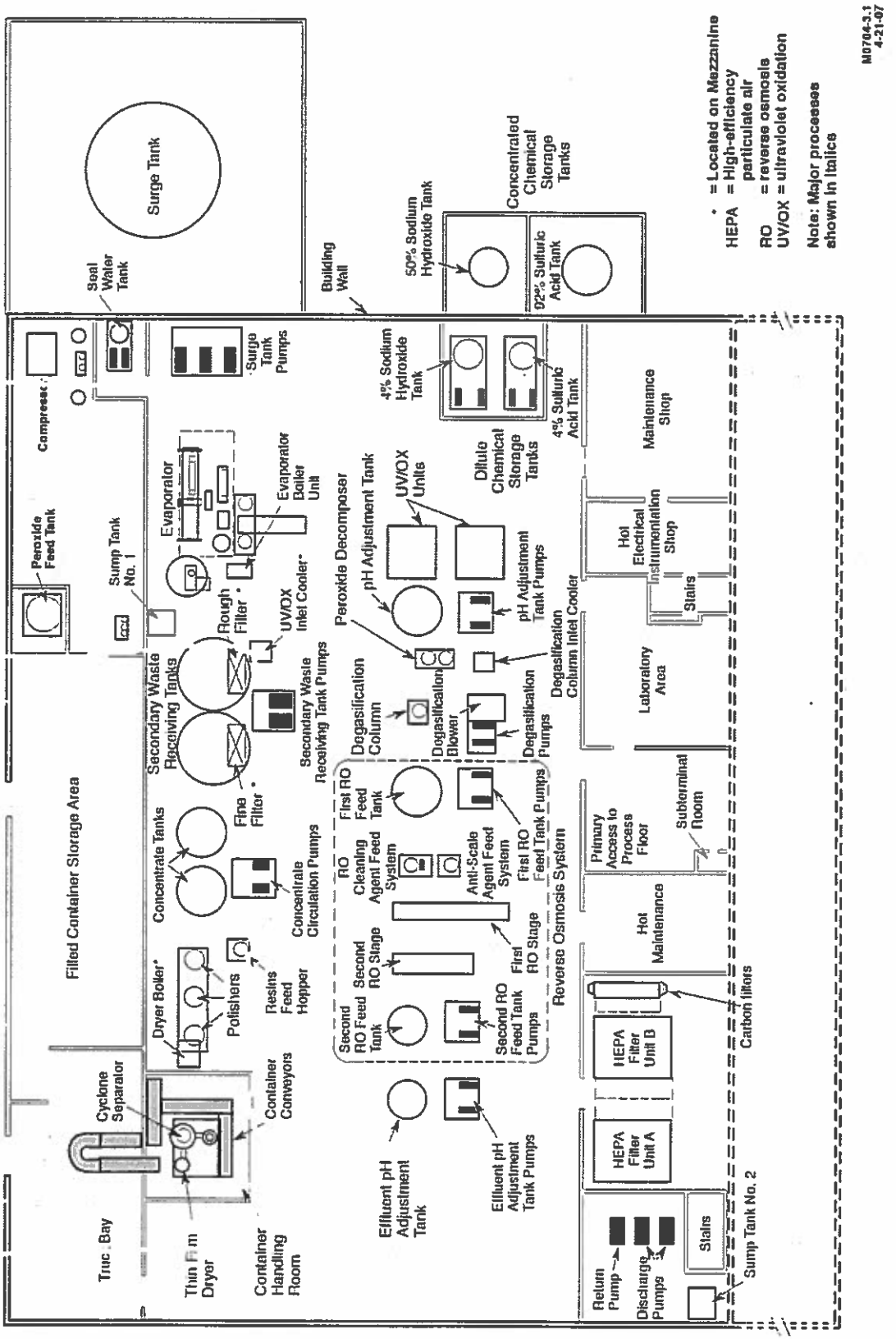
HEPA = High-efficiency particulate air
HVAC = Heating, ventilation, and air conditioning

M0704-3.6
4-24-07

2

3

Figure C.3. 200 Area Effluent Treatment Facility Layout



ATTACHMENT I

Inventory and analytical data for drums in storage unit outside ETF

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

Basin 43 Powder Results

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	UNITS	QUALI	METHOD_NAME	AMP_DATE_TIM	SDG_NUM	LAB_CODE
B2KDR1	Arsenic	4.45	mg/kg		200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Beryllium	0.054	mg/kg	U	200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Cadmium	0.027	mg/kg	U	200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Chromium	81.7	mg/kg		200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Copper	1.75	mg/kg	C	200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Lead	0.0576	mg/kg	B	200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Mercury	0.027	mg/kg	U	200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Selenium	3.65	mg/kg		200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Uranium	146	mg/kg		200.8_METALS_ICPMS	01-May-12	WSCF120575	WSCF
B2KDR1	Bromide	2100	mg/kg	UD	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Chloride	40900	mg/kg	D	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Fluoride	410	mg/kg	UD	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Nitrogen in Nitrate	69000	mg/kg	D	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Nitrogen in Nitrite	360	mg/kg	UD	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Phosphorus in phosphate	790	mg/kg	UDN	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Sulfate	143000	mg/kg	D	300.0_ANIONS_IC	01-May-12	WSCF120575	WSCF
B2KDR1	Aluminum	12	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Antimony	123	mg/kg	BD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Barium	52.9	mg/kg	D	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Beryllium	4	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Calcium	68100	mg/kg	D	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Cobalt	4	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Iron	27.3	mg/kg	BD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Magnesium	20500	mg/kg	D	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Manganese	4	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Nickel	4	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Potassium	7010	mg/kg	D	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Silicon	2480	mg/kg	DX	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Silver	4	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Sodium	182000	mg/kg	D	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Thallium	39	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Titanium	4	mg/kg	UD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Vanadium	36.1	mg/kg	BD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Zinc	11.6	mg/kg	BD	6010_METALS_ICP	01-May-12	WSCF120575	WSCF

Basin 43 Powder Results

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	UNITS	QUAL	METHOD_NAME	AMP_DATE_TIM	SDG_NUM	LAB_CODE
B2KDR1	Hexavalent Chromium	3.55	ug/g	N	7196_CR6	01-May-12	WSCF120575	WSCF
B2KDR1	1,1,1-Trichloroethane	10	ug/kg	UT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,1,2-Trichloroethane	10	ug/kg	UXT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,1-Dichloroethane	10	ug/kg	UT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,1-Dichloroethene	10	ug/kg	UT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,2-Dichloroethane	10	ug/kg	UXT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,2-Dichloroethene (Total)	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,4-Dichlorobenzene	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1-Butanol	1000	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2-Butanone	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2-Hexanone	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2-Pentanone	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	4-Methyl-2-pentanone	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Acetone	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Benzene	10	ug/kg	UT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Bromodichloromethane	10	ug/kg	UXT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Carbon disulfide	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Carbon tetrachloride	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Chlorobenzene	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Chloroform	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Ethyl cyanide	20	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Ethylbenzene	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Methylene chloride	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Tetrachloroethene	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Tetrahydrofuran	20	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Toluene	10	ug/kg	UT	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Trichloroethene	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Vinyl chloride	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Xylenes (total)	10	ug/kg	U	8260_VOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Antimony	30	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Arsenic	200	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Barium	291	ug/L	B	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Cadmium	50	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF

Basin 43 Powder Results

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	UNITS	QUALI	METHOD_NAME	AMP_DATE_TIM	SDG_NUM	LAB_CODE
B2KDR1	Chromium	1640	ug/L		TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Lead	50	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Mercury	50	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Nickel	101	ug/L	B	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Selenium	1000	ug/L	UN	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Silver	50	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	Uranium	500	ug/L	U	TCLP_200.8_MET_ICP	01-May-12	WSCF120575	WSCF
B2KDR1	1,2,4-Trichlorobenzene	50	ug/L	UTX	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	1,4-Dichlorobenzene	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2,4-Dinitrotoluene	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2-Butoxyethanol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2-Chlorophenol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	2-Methylphenol (cresol, o-)	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	3+4 Methylphenol (cresol, m+p)	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	4-Chloro-3-methylphenol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	4-Nitrophenol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Acenaphthene	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Acetophenone	54	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Benzyl alcohol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Di-n-octylphthalate	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Hexachloroethane	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Naphthalene	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	n-Nitrosodimethylamine	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	n-Nitrosodi-n-dipropylamine	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Pentachlorophenol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Phenol	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Pyrene	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Total cresols	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF
B2KDR1	Tributyl phosphate	50	ug/L	U	TCLP_8270_SVOA_GCMS	01-May-12	WSCF120575	WSCF

POWDER DRUMS AT ETF GREATER THAN 1 YEAR

Drum #	Date generated	Material
0083458	4/9/2012	Basin 43 campaign
0083455	4/11/2012	Basin 43 campaign
0083457	4/11/2012	Basin 43 campaign
0083595	4/20/2012	Basin 43 campaign
0083463	4/23/2012	Basin 43 campaign
0083464	4/23/2012	Basin 43 campaign
0083466	4/23/2012	Basin 43 campaign
0083592	4/24/2012	Basin 43 campaign
0083578	4/24/2012	Basin 43 campaign
0083591	4/24/2012	Basin 43 campaign
0083465	4/25/2012	Basin 43 campaign
0084604	4/25/2012	Basin 43 campaign
0084617	4/25/2012	Basin 43 campaign
0084618	4/26/2012	Basin 43 campaign
0084603	4/26/2012	Basin 43 campaign
0084594	4/26/2012	Basin 43 campaign
0084624	4/27/2012	Basin 43 campaign
0085011	4/29/2012	Basin 43 campaign
0084830	4/29/2012	Basin 43 campaign
0084918	4/29/2012	Basin 43 campaign
0084593	4/29/2012	Basin 43 campaign
0084623	4/29/2012	Basin 43 campaign
0084829	4/30/2012	Basin 43 campaign
0084852	5/1/2012	Basin 43 campaign
0081635	5/1/2012	Basin 43 campaign
0084917	5/1/2012	Basin 43 campaign
0084851	5/1/2012	Basin 43 campaign
0081737	5/1/2012	Basin 43 campaign
0081728	5/1/2012	Basin 43 campaign
0081727	5/1/2012	Basin 43 campaign
0085012	5/1/2012	Basin 43 campaign
0081738	5/2/2012	Basin 43 campaign
0081669	5/2/2012	Basin 43 campaign
0081634	5/2/2012	Basin 43 campaign
0081670	5/3/2012	Basin 43 campaign
0082164	5/3/2012	Basin 43 campaign
0082112	5/3/2012	Basin 43 campaign
0084657	5/4/2012	Basin 43 campaign
0084652	5/4/2012	Basin 43 campaign
0082111	5/4/2012	Basin 43 campaign
0084651	5/5/2012	Basin 43 campaign
0084658	5/5/2012	Basin 43 campaign
0082163	5/5/2012	Basin 43 campaign
0084641	5/6/2012	Basin 43 campaign
0084636	5/6/2012	Basin 43 campaign

POWDER DRUMS AT ETF GREATER THAN 1 YEAR

Drum #	Date generated	Material
0084635	5/6/2012	Basin 43 campaign
0084642	5/7/2012	Basin 43 campaign
0082406	5/7/2012	Basin 43 campaign
0082411	5/7/2012	Basin 43 campaign
0082404	5/8/2012	Basin 43 campaign
0082413	5/8/2012	Basin 43 campaign
0082165	5/8/2012	Basin 43 campaign
0082113	5/8/2012	Basin 43 campaign
0082166	5/9/2012	Basin 43 campaign
0082114	5/9/2012	Basin 43 campaign
0082398	5/9/2012	Basin 43 campaign
0082419	5/9/2012	Basin 43 campaign
0082420	5/13/2012	Basin 43 campaign
0082421	5/13/2012	Basin 43 campaign
0082422	5/13/2012	Basin 43 campaign
0082397	5/13/2012	Basin 43 campaign
0082396	5/13/2012	Basin 43 campaign
0082395	5/13/2012	Basin 43 campaign
0082329	5/15/2012	Basin 43 campaign
0082270	5/15/2012	Basin 43 campaign
0082271	5/15/2012	Basin 43 campaign
0082297	5/15/2012	Basin 43 campaign
0082229	5/15/2012	Basin 43 campaign
0082228	5/15/2012	Basin 43 campaign
0082307	5/17/2012	Basin 43 campaign
0082230	5/17/2012	Basin 43 campaign
0082298	5/17/2012	Basin 43 campaign
0082330	5/17/2012	Basin 43 campaign
0082299	5/17/2012	Basin 43 campaign
0082231	5/17/2012	Basin 43 campaign
0082296	5/17/2012	Basin 43 campaign
0082239	5/20/2012	Basin 43 campaign
0082260	5/20/2012	Basin 43 campaign
0082339	5/21/2012	Basin 43 campaign
0082261	5/21/2012	Basin 43 campaign
0082340	5/21/2012	Basin 43 campaign
0082238	5/21/2012	Basin 43 campaign
0082306	5/21/2012	Basin 43 campaign
0081362	5/22/2012	Basin 43 campaign
0081428	5/22/2012	Basin 43 campaign
0081429	5/22/2012	Basin 43 campaign
0081546	5/23/2012	Basin 43 campaign
0081408	5/23/2012	Basin 43 campaign
0081409	5/23/2012	Basin 43 campaign

POWDER DRUMS AT ETF GREATER THAN 1 YEAR

Drum #	Date generated	Material
0081547	5/24/2012	Basin 43 campaign
0081363	5/24/2012	Basin 43 campaign
0081354	5/24/2012	Basin 43 campaign
0081420	5/25/2012	Basin 43 campaign
0081355	5/25/2012	Basin 43 campaign
0081421	5/25/2012	Basin 43 campaign
0081417	5/26/2012	Basin 43 campaign
0081555	5/26/2012	Basin 43 campaign
0081416	5/26/2012	Basin 43 campaign
0081554	5/27/2012	Basin 43 campaign
0082390	5/27/2012	Basin 43 campaign
0082368	5/27/2012	Basin 43 campaign
0082367	5/28/2012	Basin 43 campaign
0082379	5/28/2012	Basin 43 campaign
0082358	5/28/2012	Basin 43 campaign
0082380	6/20/2012	Mixed Basin 43/Basin 44 material
0082305	6/22/2012	Mixed Basin 43/Basin 44 material
0082304	6/22/2012	Mixed Basin 43/Basin 44 material
0081668	6/23/2012	Mixed Basin 43/Basin 44 material
0081736	6/23/2012	Mixed Basin 43/Basin 44 material
0082237	6/23/2012	Mixed Basin 43/Basin 44 material
0082236	6/24/2012	Mixed Basin 43/Basin 44 material
0082338	6/25/2012	Mixed Basin 43/Basin 44 material
0082263	6/25/2012	Mixed Basin 43/Basin 44 material
0082352	6/26/2012	Mixed Basin 43/Basin 44 material
0082374	6/26/2012	Mixed Basin 43/Basin 44 material
0082337	6/27/2012	Mixed Basin 43/Basin 44 material
0082262	6/27/2012	Mixed Basin 43/Basin 44 material
0082351	6/28/2012	Mixed Basin 43/Basin 44 material
0082373	6/28/2012	Mixed Basin 43/Basin 44 material
0081390	6/29/2012	Mixed Basin 43/Basin 44 material
0081380	6/30/2012	Mixed Basin 43/Basin 44 material
0081446	6/30/2012	Mixed Basin 43/Basin 44 material
0081528	7/1/2012	Mixed Basin 43/Basin 44 material
0081529	7/1/2012	Mixed Basin 43/Basin 44 material
0081447	7/2/2012	Mixed Basin 43/Basin 44 material
0081391	7/2/2012	Mixed Basin 43/Basin 44 material
0081381	7/3/2012	Mixed Basin 43/Basin 44 material
0081439	7/3/2012	Mixed Basin 43/Basin 44 material
0081373	7/4/2012	Mixed Basin 43/Basin 44 material
0081399	7/4/2012	Mixed Basin 43/Basin 44 material
0081398	7/5/2012	Mixed Basin 43/Basin 44 material
0081372	7/5/2012	Mixed Basin 43/Basin 44 material
0081438	7/6/2012	Mixed Basin 43/Basin 44 material

POWDER DRUMS AT ETF GREATER THAN 1 YEAR

Drum #	Date generated	Material
0081536	7/6/2012	Mixed Basin 43/Basin 44 material
0081537	7/7/2012	Mixed Basin 43/Basin 44 material
0081368	7/7/2012	Mixed Basin 43/Basin 44 material

ATTACHMENT J

Document request list

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

Document request list for EPA:

✓ Current version of the Hanford RCRA permit

✓ Copy of the inspection sign-in sheet

Electronic copies of:

✓ -the 5 photos from the LERF 44 basin

-DWTP (PRC-STD-TQ-40232)

-EDL procedure (WMP-331-2.4)

-sample results provided by Stephanie and Mark

EDL logs (since 1/1/13): -talked to JW on 8/22 + added An example of these 4 insp. sheets

-ETF MTT rounds

-ETF STT rounds

-outside operator rounds

-waste area inspection sheets

LERF – LDR treatment information (from Stephanie and Mark)

Drum information:

-inventory of drums in the ETF outside storage area

-drum numbers, start dates, and sample results + date into storage

-drum storage inside ETF:

yes -6266-12R102586 (5/17/12)

yes -6266-12R302594 (5/24/12)

no -6266-12R102603 (7/3/12)

no -6266-12R602600 (7/5/12)

no -6266-13R302721

-9805589 – "empty 5/18/12 – glass debris" w/ used oil label

-CP-11-17-A – smaller drum

- date into storage at ETF
- contents
- explanation for >1 year storage
- sample results

List of contacts

Please send to:

Jack Boller

RCRA Compliance Unit, OCE-127

1200 6th Ave, Suite 900

Seattle, WA 98101

Joel F. Williams Jr.

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(509) 376-4782 work

(509) 528-7641 cell

ATTACHMENT K

Department of Energy response to document request

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

U.S. ENVIRONMENTAL PROTECTION AGENCY
INSPECTION OF THE 200 EAST LERF-ETF TSD UNIT
AUGUST 20 AND 21, 2013
REQUEST FOR INFORMATION CONTENTS TABLE

Request Number	Date of Request	Document Request	Total Number of Pages
1	08-20-2013	Attendance Roster for Pre-Briefing , dated 08-20-2013	2
2	08-20-2013	Photographs Identifying Issue Corrections of the ERDF Load-Out and Maverick Containers (5 photographs)	5
3	08-20-2013	Copy of Resolutions to Issues Identified by EPA for the ERDF Load-Out and Maverick Containers, dated 08-21-2013	2
4	08-20-2013	Copy of HF RCRA Permit, Rev 8C for the 200 East LERF-ETF Operating Unit 3	
		File 1 - Attachments	
		• Attachment 4 - DOE-RL-94-02_HEMP	227
		• Attachment 3 - Security	4
		• Attachment 5 - HF Personnel Training Program	6
		• Attachment 6 - Reports and Records	6
		• Attachment 9 - Applicability Matrix	8
		• Attachment 10 - Purgewater	30
		• Attachment 1 - TPA	1
		• Attachment 2 - Quarterly Modification	1
		• Attachment 7 - 1990-06	11
		• Attachment 8 - Well Maintenance and Inspection	6
			42
		File 2 - LERF-ETF Unit Specific Files	
		• LERF-ETF_CH-5_GW Monitoring	134
		• LERF-ETF Add C Process Info 6-20-2013	66
		• LERF-ETF Add E Security	4
		• LERF-ETF Add F 6-20-2013	6
		• LERF-ETF Add H Closure	10
		• LERF-ETF Add I Inspection Plan	10
		• LERF-ETF_ADD_ Personnel Training_6-30-2013	2
		• LERF-ETF_ADD_A_Rev 3_6-30-2013	16
		• LERF-ETF_ADD_B_WAP_3-31-2012	38
		• LERF-ETF_ADD_ J_Contengency_Plan_3-31-2012	14
		• LERF-ETF_Part_A_Topo_Map	1
		• LERF-ETF_Unit_Conditions_6-30-2013	8

U.S. ENVIRONMENTAL PROTECTION AGENCY
INSPECTION OF THE 200 EAST LERF-ETF TSD UNIT
AUGUST 20 AND 21, 2013
REQUEST FOR INFORMATION CONTENTS TABLE

Request Number	Date of Request	Document Request	Total Number of Pages
		File 3 – Parts 1 & 2_Standards & General Conditions ***NOTE: The above Items 1 through 4 were provided to the U.S. Environmental Protection Agency at the August 21, 2013 post-briefing with the U. S. Department of Energy and CH2M Hill Plateau Remediation Company.*** • Copy of EPA Signed receipt for Items 1 through 4	44 1
5	08-21-2013	Attendance Roster for Post-Briefing, dated 08-21-2013	2
6	08-21-2013	Point of Contact List for Regulatory Agency Inspections	3
7	08-21-2013	Standards PRC-STD-TQ-40232 "Liquid Effluent Retention facility/200 Area Effluent Treatment Facility Dangerous Waste Training Plan," Revision 0, Change 3, dated 05-09-2013	16
8	08-21-2013	Administrative Procedure WMP-331-2.4 (LWRS-PRO-OP-51606) "LWFS Equipment Deficiency Identification and Documentation," Revision 6, Change 1, dated 06-13-2012	8
9	08-21-2013	Liquid Waste Processing Facilities –Equipment Deficiency List(s) • Operator Rounds MTT (Main Treatment Train) • Operator Rounds STT (Secondary Treatment Train) • Operator Rounds OT (Outside Areas LERF and TEDF) • Operator Rounds SOE-ETF (SOE Equipment)	 2 2 3 1
10	08-21-2013	POP-30-001 "ETF Control Room MTT and STT Operator Rounds, Appendix B – ETF MTT Rounds," (Daily – 2 inspections per day) • Records from 01-07-2013 through 08-12-2013 **(Total of 32 Records, 15 pages per record)**	480
11	08-21-2013	POP-30-001 "ETF Control Room MTT and STT Operator Rounds, Appendix C – ETF STT Rounds," (Daily – 2 inspections per day) • Records from 01-07-2013 through 08-12-2013 **(Total of 32 Records, 14 pages per record)**	448
12	08-21-2013	POP-30-003 "ETF Outside Operator Rounds, Appendix A – Outside Operator Rounds," (Daily) • Records from 01-07-2013 through 08-12-2013 **(Total of 32 records, 24 pages per record)**	768
13	08-21-2013	POP-60K-005 "Inspect Waste Management Areas, Appendix A – Waste Inspection Sheet," (Weekly) • Records from 01-08-2013 through 08-13-2013 **(Total of 32 records, 2 pages per record)**	64
14	08-21-2013	Tanker Waste Acceptance Criteria – New Waste Stream Acceptance Checklist	128
15	08-21-2013	Tanker Shipments to ETF – Load-in Influent Transfers • Records of transfers from 08-01-2012 through 08-15-2013	3
16	08-21-2013	Evaluation of ERDF Leachate Sample Results 2011, dated 04-18-2012	54

U.S. ENVIRONMENTAL PROTECTION AGENCY
INSPECTION OF THE 200 EAST LERF-ETF TSD UNIT
AUGUST 20 AND 21, 2013
REQUEST FOR INFORMATION CONTENTS TABLE

Request Number	Date of Request	Document Request	Total Number of Pages
17	08-21-2013	ERDF Leachate Transfers (Revision:11-29-2005) – Pipeline Transfers • Record of transfers from 01-03-2012 through 07-30-2013	 1
18	08-21-2013	Container Characterization Data Sheets • Fluor Hanford Container Data Sheet - Container Number 6266-12R102586 • Fluor Hanford Container Data Sheet - Container Number 6266-12R102603 • Fluor Hanford Container Data Sheet - Container Number 6266-12R302594 • Fluor Hanford Container Data Sheet - Container Number 6266-13R302721 • Fluor Hanford Container Data Sheet - Container Number 6269-12R602600 • Container Number 0051919 (CP-11-17A) - Test America Analytical Report, Dated December 20, 2011 • Container Characterization #1 Shipment dated 07-30-2013 - Fluor Hanford Container Data Sheet – Container Number 6266-13R502747 • Container Characterization #2 Shipment dated 07-09-2013 - Fluor Hanford Container Data Sheet – Container Number 008578 • Container Characterization #3 Shipment dated 12-18-2012 - Fluor Hanford Container Data Sheet – Container Number 6266-12R202663	 35 36 52 38 37 23 27 56 31
19	08-21-2013	Container Receipt Inventory • ETF Container Receipt Inventory • ETF Current Drum Inventory (As of 8-21-2013)	 4 2
20	08-21-2013	Container Storage and Analytical Results Information – Powder Drums • Powder Drum At ETF Greater Than 1 Year • Basin 43 Powder Results (Analytical)	 4 3
21	08-21-2013	ETF Verification Tank Data • ETF Verification Tank Data – Analytical • ETF Tank Release Summary	 31 1
22	08-21-2013	Drum PIN # 9905589 Explanation and Photograph of Drum	2
23	08-21-2013	LERF Basin 44 Waste Water Treatment Explanation and Data	5
			Total Number of pages (including Table) = 3133 Pages

Dept. of Energy Response to Document Request for 8/20-21/13 Hanford RCRA inspection.

WA 8967
8/21/2013
4A

WA 89
8/21/
4A

FILE COPY

ATTACHMENT L

Delisting confirmation data

U.S. Department of Energy Hanford
(Effluent Treatment Facility/Liquid Effluent Retention Facility)
WA7890008967

2013 RCRA Inspection Report

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE	RPTD_L	UNITS	R_QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2K8J0	Arsenic	0.2		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Cadmium	0.05		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Chromium	0.183		ug/L	B	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Copper	0.1		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Lead	0.05		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Mercury	0.05		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Selenium	1		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Uranium	0.05		ug/L	U	200.8_METALS_ICPMS	29-Dec-11		WSCF113552
B2K8J0	Total dissolved solids	10		mg/L	U	2540C_TDS	29-Dec-11		WSCF113552
B2K8J0	Total suspended solids	2		mg/L	U	2540D_TSS	29-Dec-11		WSCF113552
B2K8J0	Nitrogen in ammonium	0.0014		ug/mL	U	300.7_CATIONS_IC	29-Dec-11		WSCF113552
B2K8J0	Cyanide	4		ug/L	U	4500E_CN	29-Dec-11		WSCF113552
B2K8J0	Aluminum	12		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Barium	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Beryllium	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Calcium	49		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Cobalt	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Iron	19		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Magnesium	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Manganese	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Nickel	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Potassium	76		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Silicon	33		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Silver	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Sodium	10		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Thallium	39		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Titanium	4		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Vanadium	5		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	Zinc	5		ug/L	U	6010_METALS_ICP	29-Dec-11		WSCF113552
B2K8J0	1,1,1-Trichloroethane	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,1,2-Trichloroethane	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,1-Dichloroethane	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,1-Dichloroethene	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,2-Dichloroethane	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,2-Dichloroethene (Total)	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,4-Dichlorobenzene	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1-Butanol	100		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	2-Butanone	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	2-Hexanone	1		ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2K8J0	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Acetone	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Benzene	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Chloroform	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Toluene	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,2,4-Trichlorobenzene	1	ug/L	UTX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	2,4-Dinitrotoluene	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	2-Chlorophenol	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	4-Chloro-3-methylphenol	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	4-Nitrophenol	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Acenaphthene	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Naphthalene	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	n-Nitrosodi-n-dipropylamine	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Phenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Pyrene	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2K8J0	Total cresols	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0	Tributyl phosphate	1	ug/L	UX	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Benzoic acid	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Phenol	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Pyrene	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Total cresols	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8J0RERUN	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	29-Dec-11		WSCF113552
B2K8H9	Specific Conductance	0.853	uS/cm	B	120.1_CONDUCT	29-Dec-11		WSCF113551
B2K8H9	Bromide	0.22	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Chloride	0.12	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Fluoride	0.046	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Nitrogen in Nitrate	0.038	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Nitrogen in Nitrite	0.038	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Phosphorus in phosphate	0.084	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Sulfate	0.22	ug/mL	UD	300.0_ANIONS_IC	29-Dec-11		WSCF113551
B2K8H9	Total organic carbon	0.1	mg/L	U	9060_TOC	29-Dec-11		WSCF113551
B2JPL0	Specific Conductance	1.19	uS/cm	B	120.1_CONDUCT	06-Feb-12		WSCF120197
B2JPL0	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197
B2JPL0	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197
B2JPL0	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS	R_QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2JPL0	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197
B2JPL0	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197
B2JPL0	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197
B2JPL0	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	06-Feb-12		WSCF120197
B2JPL0	Total organic carbon	0.1	mg/L	U	9060_TOC	06-Feb-12		WSCF120197
B2K8J6	Specific Conductance	0.845	uS/cm	B	120.1_CONDUCT	16-Feb-12		WSCF120269
B2K8J6	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	16-Feb-12		WSCF120269
B2K8J6	Total organic carbon	0.1	mg/L	U	9060_TOC	16-Feb-12		WSCF120269
B2K8J7	Specific Conductance	0.872	uS/cm	B	120.1_CONDUCT	22-Feb-12		WSCF120291
B2K8J7	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	22-Feb-12		WSCF120291
B2K8J7	Total organic carbon	0.1	mg/L	U	9060_TOC	22-Feb-12		WSCF120291
B2KD45	Specific Conductance	1.1	uS/cm	B	120.1_CONDUCT	01-Mar-12		WSCF120335
B2KD45	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Chromium	0.153	ug/L	B	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Copper	0.1	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Selenium	1	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	01-Mar-12		WSCF120335
B2KD45	Total dissolved solids	20	mg/L	B	2540C_TDS	01-Mar-12		WSCF120335
B2KD45	Total suspended solids	4	mg/L	U	2540D_TSS	01-Mar-12		WSCF120335
B2KD45	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335
B2KD45	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335
B2KD45	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335
B2KD45	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2KD45	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335
B2KD45	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335
B2KD45	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	01-Mar-12		WSCF120335
B2KD45	Nitrogen in ammonium	0.0014	ug/mL	U	300.7_CATIONS_IC	01-Mar-12		WSCF120335
B2KD45	Cyanide	4	ug/L	U	4500E_CN	01-Mar-12		WSCF120335
B2KD45	Aluminum	12	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Barium	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Beryllium	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Calcium	49	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Cobalt	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Iron	19	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Magnesium	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Manganese	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Nickel	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Potassium	76	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Silicon	33	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Silver	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Sodium	10	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Thallium	39	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Titanium	4	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Vanadium	5	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Zinc	5	ug/L	U	6010_METALS_ICP	01-Mar-12		WSCF120335
B2KD45	Aroclor-1016	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1221	0.2	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1232	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1242	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1248	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1254	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1260	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1262	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	Aroclor-1268	0.1	ug/L	U	8082_PCB_GC	01-Mar-12		WSCF120335
B2KD45	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS	R_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2KD45	1-Butanol	100	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2-Butanone	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Acetone	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Benzene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Chloroform	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Toluene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2,4,6-Trichlorophenol	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2-Chlorophenol	1	ug/L	UX	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	4-Chloroaniline	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	4-Nitrophenol	1	ug/L	UX	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Bis(2-chloro-1-methylethyl)ethe	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Carbazole	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Chrysene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2KD45	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Diphenylamine	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Gamma-BHC (Lindane)	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Hexachlorobenzene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Hexachlorocyclopentadiene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Isophorone	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Pentachlorophenol	1	ug/L	UX	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Phenol	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Pyrene	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Pyridine	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Total cresols	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	01-Mar-12		WSCF120335
B2KD45	Total organic carbon	0.1	mg/L	U	9060_TOC	01-Mar-12		WSCF120335
B2KDR4	Specific Conductance	5.84	uS/cm		120.1_CONDUCT	10-Apr-12		WSCF120451
B2KDR4	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	10-Apr-12		WSCF120451
B2KDR4	Total organic carbon	0.1	mg/L	U	9060_TOC	10-Apr-12		WSCF120451
B2KDR5	Specific Conductance	1.48	uS/cm	B	120.1_CONDUCT	16-Apr-12		WSCF120483
B2KDR5	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	16-Apr-12		WSCF120483
B2KDR5	Total organic carbon	0.1	mg/L	U	9060_TOC	16-Apr-12		WSCF120483
B2L545	Specific Conductance	6.3	uS/cm		120.1_CONDUCT	23-Apr-12		WSCF120517
B2L545	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517
B2L545	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2L545	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517
B2L545	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517
B2L545	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517
B2L545	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517
B2L545	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	23-Apr-12		WSCF120517
B2L545	Total organic carbon	0.1	mg/L	U	9060_TOC	23-Apr-12		WSCF120517
B2KD43	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Chromium	0.1	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Copper	0.1	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Selenium	1	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	30-Apr-12		WSCF120560
B2KD43	Total dissolved solids	10	mg/L	U	2540C_TDS	30-Apr-12		WSCF120560
B2KD43	Total suspended solids	2	mg/L	U	2540D_TSS	30-Apr-12		WSCF120560
B2KD43	Nitrogen in ammonium	0.0039	ug/mL	B	300.7_CATIONS_IC	30-Apr-12		WSCF120560
B2KD43	Cyanide	4	ug/L	U	4500E_CN	30-Apr-12		WSCF120560
B2KD43	Aluminum	12	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Barium	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Beryllium	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Calcium	64.8	ug/L	B	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Cobalt	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Iron	19	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Magnesium	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Manganese	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Nickel	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Potassium	76	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Silicon	33	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Silver	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Sodium	10	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Thallium	39	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Titanium	4	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Vanadium	5	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	Zinc	5	ug/L	U	6010_METALS_ICP	30-Apr-12		WSCF120560
B2KD43	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,1-Dichloroethane	1	ug/L	UTX	8260_VOA_GCMS	30-Apr-12		WSCF120560

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2KD43	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1-Butanol	100	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2-Butanone	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Acetone	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Benzene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Chloroform	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Toluene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	4-Nitrophenol	1	ug/L	UT	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS	R_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2KD43	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Phenol	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Pyrene	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Total cresols	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD43	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	30-Apr-12		WSCF120560
B2KD42	Specific Conductance	6.23	uS/cm		120.1_CONDUCT	30-Apr-12		WSCF120563
B2KD42	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	30-Apr-12		WSCF120563
B2KD42	Total organic carbon	0.1	mg/L	U	9060_TOC	30-Apr-12		WSCF120563
B2L546	Specific Conductance	1.8	uS/cm	B	120.1_CONDUCT	07-May-12		WSCF120594
B2L546	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	07-May-12		WSCF120594
B2L546	Total organic carbon	0.1	mg/L	U	9060_TOC	07-May-12		WSCF120594
B2L7M2	Specific Conductance	1.35	uS/cm	B	120.1_CONDUCT	14-May-12		WSCF120628
B2L7M2	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	14-May-12		WSCF120628
B2L7M2	Total organic carbon	0.1	mg/L	U	9060_TOC	14-May-12		WSCF120628
B2L7M0	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2L7M0	Chromium	0.1	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Copper	0.1	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Selenium	1	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	18-May-12		WSCF120653
B2L7M0	Total dissolved solids	10	mg/L	U	2540C_TDS	18-May-12		WSCF120653
B2L7M0	Total suspended solids	2	mg/L	UX	2540D_TSS	18-May-12		WSCF120653
B2L7M0	Nitrogen in ammonium	0.0014	ug/mL	U	300.7_CATIONS_IC	18-May-12		WSCF120653
B2L7M0	Cyanide	4	ug/L	U	4500E_CN	18-May-12		WSCF120653
B2L7M0	Aluminum	12	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Barium	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Beryllium	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Calcium	49	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Cobalt	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Iron	19	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Magnesium	5.2	ug/L	B	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Manganese	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Nickel	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Potassium	76	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Silicon	33	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Silver	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Sodium	12.7	ug/L	BC	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Thallium	39	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Titanium	4	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Vanadium	5	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	Zinc	5	ug/L	U	6010_METALS_ICP	18-May-12		WSCF120653
B2L7M0	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,1-Dichloroethane	1	ug/L	UT	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1-Butanol	100	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	2-Butanone	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2L7M0	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Acetone	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Benzene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Chloroform	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Toluene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	3-Chloro-3-methyl-1-butene	15	ug/L		8270_SVOA_GCMS	18-May-12	Y	WSCF120653
B2L7M0	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Methyl tetrahydrofurfuryl ether	7.1	ug/L		8270_SVOA_GCMS	18-May-12	Y	WSCF120653
B2L7M0	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Phenol	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	LQUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2L7M0	Pyrene	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Total cresols	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7M0	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	18-May-12		WSCF120653
B2L7L9	Specific Conductance	1.69	uS/cm	B	120.1_CONDUCT	18-May-12		WSCF120654
B2L7L9	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	18-May-12		WSCF120654
B2L7L9	Total organic carbon	0.1	mg/L	U	9060_TOC	18-May-12		WSCF120654
B2L7M3	Specific Conductance	2.27	uS/cm	B	120.1_CONDUCT	25-Jun-12		WSCF120824
B2L7M3	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	25-Jun-12		WSCF120824
B2L7M3	Total organic carbon	0.1	mg/L	U	9060_TOC	25-Jun-12		WSCF120824
B2LD53	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Chromium	0.206	ug/L	B	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Copper	0.1	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Selenium	1	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	09-Jul-12		WSCF120874
B2LD53	Total dissolved solids	10	mg/L	U	2540C_TDS	09-Jul-12		WSCF120874
B2LD53	Total suspended solids	2	mg/L	U	2540D_TSS	09-Jul-12		WSCF120874
B2LD53	Nitrogen in ammonium	0.0022	ug/mL	B	300.7_CATIONS_IC	09-Jul-12		WSCF120874
B2LD53	Cyanide	4	ug/L	U	4500E_CN	09-Jul-12		WSCF120874
B2LD53	Aluminum	12	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Barium	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Beryllium	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Calcium	49	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Cobalt	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2LD53	Iron	19	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Magnesium	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Manganese	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Nickel	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Potassium	76	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Silicon	33	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Silver	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Sodium	10.8	ug/L	BC	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Thallium	39	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Titanium	4	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Vanadium	5	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	Zinc	5	ug/L	U	6010_METALS_ICP	09-Jul-12		WSCF120874
B2LD53	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1-Butanol	100	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2-Butanone	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Acetone	25	ug/L		8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Benzene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Chloroform	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Hexane	0.4	ug/L		8260_VOA_GCMS	09-Jul-12	Y	WSCF120874
B2LD53	Methylene chloride	2.7	ug/L	J	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Toluene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2LD53	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Phenol	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Pyrene	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Total cresols	1	ug/L	U	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD53	Tributyl phosphate	1	ug/L	UXT	8270_SVOA_GCMS	09-Jul-12		WSCF120874
B2LD52	Specific Conductance	1.99	uS/cm	B	120.1_CONDUCT	09-Jul-12		WSCF120875
B2LD52	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	09-Jul-12		WSCF120875
B2LD52	Total organic carbon	0.1	mg/L	U	9060_TOC	09-Jul-12		WSCF120875
B2LD51	Specific Conductance	1.33	uS/cm	B	120.1_CONDUCT	19-Jul-12		WSCF120930
B2LD51	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930
B2LD51	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930
B2LD51	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2LD51	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930
B2LD51	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930
B2LD51	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930
B2LD51	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	19-Jul-12		WSCF120930
B2LD51	Total organic carbon	0.1	mg/L	U	9060_TOC	19-Jul-12		WSCF120930
B2LXM0	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	1-Butanol	100	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	2-Butanone	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Acetone	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Benzene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Chloroform	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Toluene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LXM0	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	13-Aug-12		WSCF121030
B2LWV3	Specific Conductance	0.5	uS/cm	U	120.1_CONDUCT	13-Aug-12		WSCF121031
B2LWV3	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031
B2LWV3	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031
B2LWV3	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031
B2LWV3	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2LWV3	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031
B2LWV3	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031
B2LWV3	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	13-Aug-12		WSCF121031
B2LWV3	Total organic carbon	0.1	mg/L	U	9060_TOC	13-Aug-12		WSCF121031
B2LWV4	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Chromium	0.1	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Copper	0.1	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Selenium	1	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	13-Aug-12		WSCF121030
B2LWV4	Total dissolved solids	10	mg/L	U	2540C_TDS	13-Aug-12		WSCF121030
B2LWV4	Total suspended solids	2	mg/L	U	2540D_TSS	13-Aug-12		WSCF121030
B2LWV4	Nitrogen in ammonium	0.0014	ug/mL	U	300.7_CATIONS_IC	13-Aug-12		WSCF121030
B2LWV4	Cyanide	4	ug/L	U	4500E_CN	13-Aug-12		WSCF121030
B2LWV4	Aluminum	12	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Barium	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Beryllium	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Calcium	49	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Cobalt	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Iron	19	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Magnesium	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Manganese	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Nickel	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Potassium	76	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Silicon	33	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Silver	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Sodium	19.5	ug/L	BC	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Thallium	39	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Titanium	4	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Vanadium	5	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	Zinc	5	ug/L	U	6010_METALS_ICP	13-Aug-12		WSCF121030
B2LWV4	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2LWV4	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Phenol	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Pyrene	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Total cresols	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2LWV4	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	13-Aug-12		WSCF121030
B2M8V5	Specific Conductance	2.22	uS/cm	B	120.1_CONDUCT	17-Sep-12		WSCF121159
B2M8V5	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Chromium	0.151	ug/L	B	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Copper	0.576	ug/L	B	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Lead	0.066	ug/L	B	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Selenium	1	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5	Total dissolved solids	10	mg/L	U	2540C_TDS	17-Sep-12		WSCF121159
B2M8V5	Total suspended solids	2	mg/L	U	2540D_TSS	17-Sep-12		WSCF121159
B2M8V5	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5	Aluminum	12	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Barium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Beryllium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2M8V5	Calcium	49	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Cobalt	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Iron	19	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Magnesium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Manganese	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Nickel	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Potassium	76	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Silicon	33	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Silver	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Sodium	23.7	ug/L	BC	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Thallium	39	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Titanium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Vanadium	5	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Zinc	5	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1016	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1221	0.3	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1232	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1242	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1248	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1254	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1260	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1262	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	Aroclor-1268	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	1-Butanol	100	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	2-Butanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Acetone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Benzene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2M8V5	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Chloroform	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Toluene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5	Total organic carbon	0.1	mg/L	U	9060_TOC	17-Sep-12		WSCF121159
B2M8V5DUP	Specific Conductance	1.38	uS/cm	B	120.1_CONDUCT	17-Sep-12		WSCF121159
B2M8V5DUP	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Chromium	0.131	ug/L	B	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Copper	0.531	ug/L	B	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Selenium	1	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	17-Sep-12		WSCF121159
B2M8V5DUP	Total dissolved solids	10	mg/L	U	2540C_TDS	17-Sep-12		WSCF121159
B2M8V5DUP	Total suspended solids	2	mg/L	U	2540D_TSS	17-Sep-12		WSCF121159
B2M8V5DUP	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	17-Sep-12		WSCF121159
B2M8V5DUP	Aluminum	12	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Barium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Beryllium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Calcium	49	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Cobalt	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Iron	19	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUAL	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2M8V5DUP	Magnesium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Manganese	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Nickel	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Potassium	76	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Silicon	33	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Silver	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Sodium	10	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Thallium	39	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Titanium	4	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Vanadium	5	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Zinc	5	ug/L	U	6010_METALS_ICP	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1016	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1221	0.2	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1232	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1242	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1248	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1254	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1260	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1262	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	Aroclor-1268	0.1	ug/L	U	8082_PCB_GC	17-Sep-12		WSCF121159
B2M8V5DUP	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	1-Butanol	100	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	2-Butanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	2-Hexanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	2-Pentanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Acetone	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Benzene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2M8V5DUP	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Chloroform	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Toluene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Trichloroethene	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	17-Sep-12		WSCF121159
B2M8V5DUP	Total organic carbon	0.1	mg/L	U	9060_TOC	17-Sep-12		WSCF121159
B2MBR6	Nitrogen in ammonium	0.0018	ug/mL	B	300.7_CATIONS_IC	10-Oct-12		WSCF121273
B2MBR6	Cyanide	4	ug/L	U	4500E_CN	10-Oct-12		WSCF121273
B2MBR6	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	2,4,6-Trichlorophenol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	4-Chloroaniline	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Bis(2-chloro-1-methylethyl)ether	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Carbazole	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Chrysene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Diphenylamine	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Gamma-BHC (Lindane)	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Hexachlorobenzene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Hexachlorocyclopentadiene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Isophorone	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2MBR6	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Phenol	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Pyrene	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Pyridine	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Total cresols	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2MBR6	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	10-Oct-12		WSCF121273
B2NDW3	Aroclor-1016	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1221	0.2	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1232	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1242	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1248	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1254	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1260	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1262	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NDW3	Aroclor-1268	0.1	ug/L	U	8082_PCB_GC	02-Jan-13		WSCF130002
B2NF82	Specific Conductance	1.01	uS/cm	B	120.1_CONDUCT	20-Feb-13		WSCF130252
B2NF82	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	20-Feb-13		WSCF130252
B2NF82	Total organic carbon	0.132	mg/L	B	9060_TOC	20-Feb-13		WSCF130252
B2NR01	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Chromium	0.108	ug/L	B	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Copper	0.211	ug/L	BC	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Manganese	0.1	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Selenium	1	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	28-Feb-13		WSCF130293
B2NR01	Total dissolved solids	10	mg/L	U	2540C_TDS	28-Feb-13		WSCF130293
B2NR01	Total suspended solids	2	mg/L	U	2540D_TSS	28-Feb-13		WSCF130293
B2NR01	Nitrogen in ammonium	0.0014	ug/mL	U	300.7_CATIONS_IC	28-Feb-13		WSCF130293

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2NR01	Cyanide	4	ug/L	U	4500E_CN	28-Feb-13		WSCF130293
B2NR01	Aluminum	12	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Barium	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Beryllium	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Calcium	49	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Cobalt	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Iron	19	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Magnesium	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Nickel	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Potassium	76	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Silicon	33	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Silver	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Sodium	10	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Thallium	39	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Titanium	4	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Vanadium	5	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	Zinc	5	ug/L	U	6010_METALS_ICP	28-Feb-13		WSCF130293
B2NR01	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,1-Dichloroethene	1	ug/L	UT	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,2-Dichloroethene (Total)	1	ug/L	UTX	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1-Butanol	50	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2-Butanone	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2-Hexanone	5	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2-Pentanone	5	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Acetone	5	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Benzene	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Chloroform	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2NR01	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Toluene	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Trichloroethene	0.5	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Phenol	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Pyrene	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Total cresols	1	ug/L	U	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR01	Tributyl phosphate	1	ug/L	UTX	8270_SVOA_GCMS	28-Feb-13		WSCF130293
B2NR00	Specific Conductance	3.56	uS/cm	B	120.1_CONDUCT	28-Feb-13		WSCF130291
B2NR00	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Fluoride	0.023	ug/mL	UN	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	28-Feb-13		WSCF130291
B2NR00	Total organic carbon	0.1	mg/L	U	9060_TOC	28-Feb-13		WSCF130291

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2NRL2	Specific Conductance	1.06	uS/cm	B	120.1_CONDUCT	11-Mar-13		WSCF130331
B2NRL2	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	11-Mar-13		WSCF130331
B2NRL2	Total organic carbon	0.1	mg/L	U	9060_TOC	11-Mar-13		WSCF130331
B2NRL3	Specific Conductance	1.01	uS/cm	B	120.1_CONDUCT	20-Mar-13		WSCF130371
B2NRL3	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Chloride	0.058	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Fluoride	0.023	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Nitrogen in Nitrate	0.019	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Nitrogen in Nitrite	0.019	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Phosphorus in phosphate	0.042	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	20-Mar-13		WSCF130371
B2NRL3	Total organic carbon	0.1	mg/L	U	9060_TOC	20-Mar-13		WSCF130371
B2P0P5	Arsenic	0.417	ug/L	BD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Cadmium	0.1	ug/L	UD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Chromium	0.305	ug/L	BD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Copper	0.75	ug/L	BD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Lead	0.1	ug/L	UD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Manganese	0.2	ug/L	UD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Mercury	0.1	ug/L	UD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Selenium	2	ug/L	UD	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Uranium	0.826	ug/L	D	200.8_METALS_ICPMS	28-Mar-13		WSCF130394
B2P0P5	Total dissolved solids	13	mg/L	BX	2540C_TDS	28-Mar-13		WSCF130394
B2P0P5	Total suspended solids	2	mg/L	U	2540D_TSS	28-Mar-13		WSCF130394
B2P0P5	Nitrogen in ammonium	0.0014	ug/mL	U	300.7_CATIONS_IC	28-Mar-13		WSCF130394
B2P0P5	Cyanide	4	ug/L	U	4500E_CN	28-Mar-13		WSCF130394
B2P0P5	Aluminum	12	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Barium	4	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Beryllium	4	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Calcium	49	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Cobalt	4	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Iron	19	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Magnesium	14.6	ug/L	BC	6010_METALS_ICP	28-Mar-13		WSCF130394

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2P0P5	Nickel	4	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Potassium	76	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Silicon	33	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Silver	4	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Sodium	10	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Thallium	39	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Titanium	4	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Vanadium	5	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	Zinc	5	ug/L	U	6010_METALS_ICP	28-Mar-13		WSCF130394
B2P0P5	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1-Butanol	50	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2-Butanone	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2-Hexanone	5	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2-Pentanone	5	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Acetone	5	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Benzene	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Chloroform	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Toluene	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Trichloroethene	0.5	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	L_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2P0P5	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Phenol	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Pyrene	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Total cresols	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P5	Tributyl phosphate	1	ug/L	U	8270_SVOA_GCMS	28-Mar-13		WSCF130394
B2P0P4	Specific Conductance	1.7	uS/cm	B	120.1_CONDUCT	28-Mar-13		WSCF130393
B2P0P4	Bromide	0.22	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Chloride	0.12	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Fluoride	0.046	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Nitrogen in Nitrate	0.038	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Nitrogen in Nitrite	0.038	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Phosphorus in phosphate	0.084	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Sulfate	0.22	ug/mL	UD	300.0_ANIONS_IC	28-Mar-13		WSCF130393
B2P0P4	Total organic carbon	0.1	mg/L	U	9060_TOC	28-Mar-13		WSCF130393
B2PD43	Specific Conductance	2	uS/cm	B	120.1_CONDUCT	03-Jun-13		WSCF130639
B2PD43	Arsenic	0.2	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Cadmium	0.05	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Chromium	0.1	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Copper	0.1	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Lead	0.05	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Mercury	0.05	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Selenium	1	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2PD43	Uranium	0.05	ug/L	U	200.8_METALS_ICPMS	03-Jun-13		WSCF130639
B2PD43	Total dissolved solids	20	mg/L	BC	2540C_TDS	03-Jun-13		WSCF130639
B2PD43	Total suspended solids	2	mg/L	U	2540D_TSS	03-Jun-13		WSCF130639
B2PD43	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Chloride	0.06	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Fluoride	0.025	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Nitrogen in Nitrate	0.02	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Nitrogen in Nitrite	0.02	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Phosphorus in phosphate	0.05	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	03-Jun-13		WSCF130639
B2PD43	Nitrogen in ammonium	0.0023	ug/mL	B	300.7_CATIONS_IC	03-Jun-13		WSCF130639
B2PD43	Cyanide	4	ug/L	U	4500E_CN	03-Jun-13		WSCF130639
B2PD43	Aluminum	12	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Barium	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Beryllium	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Calcium	49	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Cobalt	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Iron	19	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Magnesium	10	ug/L	B	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Manganese	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Nickel	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Potassium	76	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Silicon	33	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Silver	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Sodium	13.8	ug/L	B	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Thallium	39	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Titanium	4	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Vanadium	5	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Zinc	5	ug/L	U	6010_METALS_ICP	03-Jun-13		WSCF130639
B2PD43	Aroclor-1016	0.1	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	Aroclor-1221	0.2	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	Aroclor-1232	0.1	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	Aroclor-1242	0.1	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	Aroclor-1248	0.1	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	Aroclor-1254	0.1	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	Aroclor-1260	0.1	ug/L	U	8082_PCB_GC	03-Jun-13		WSCF130639
B2PD43	1,1,1-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,1,2-Trichloroethane	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639

ETF Verification Tank Data

SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS_R	QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2PD43	1,1-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,1-Dichloroethene	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,2-Dichloroethane	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,2-Dichloroethene (Total)	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,4-Dichlorobenzene	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1-Butanol	50	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2-Butanone	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2-Hexanone	5	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2-Pentanone	5	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	4-Methyl-2-pentanone	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Acetone	5	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Acetonitrile	2	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Benzene	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Bromodichloromethane	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Carbon disulfide	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Carbon tetrachloride	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Chlorobenzene	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Chloroform	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Ethyl cyanide	2	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Methylene chloride	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Tetrachloroethene	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Tetrahydrofuran	2	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Toluene	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Trichloroethene	0.5	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Vinyl chloride	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Xylenes (total)	1	ug/L	U	8260_VOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,2,4-Trichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	1,4-Dichlorobenzene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2,4,6-Trichlorophenol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2,4-Dinitrotoluene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2-Butoxyethanol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2-Chlorophenol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	2-Methylphenol (cresol, o-)	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	3+4 Methylphenol (cresol, m+p)	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	4-Chloro-3-methylphenol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	4-Chloroaniline	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	4-Nitrophenol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Acenaphthene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639

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SAMP_NUM	CON_LONG_NAME	VALUE_RPTD	L_UNITS	R_QUALI	METHOD_NAME	SAMP_DATE_TIME	TIC_FLAG	SDG_NUM
B2PD43	Acetophenone	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Benzyl alcohol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Bis(2-chloro-1-methylethyl)ethe	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Carbazole	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Chrysene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Di-n-octylphthalate	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Diphenylamine	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Gamma-BHC (Lindane)	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Hexachlorobenzene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Hexachlorocyclopentadiene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Hexachloroethane	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Isophorone	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Naphthalene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	n-Nitrosodimethylamine	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	n-Nitrosodi-n-dipropylamine	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Pentachlorophenol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Phenol	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Pyrene	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Pyridine	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Total cresols	1	ug/L	U	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Tributyl phosphate	1	ug/L	UOT	8270_SVOA_GCMS	03-Jun-13		WSCF130639
B2PD43	Total organic carbon	0.146	mg/L	B	9060_TOC	03-Jun-13		WSCF130639
B2PDF6	Specific Conductance	1.61	uS/cm	B	120.1_CONDUCT	10-Jun-13		WSCF130671
B2PDF6	Bromide	0.11	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Chloride	0.06	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Fluoride	0.025	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Nitrogen in Nitrate	0.02	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Nitrogen in Nitrite	0.02	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Phosphorus in phosphate	0.05	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Sulfate	0.11	ug/mL	U	300.0_ANIONS_IC	10-Jun-13		WSCF130671
B2PDF6	Total organic carbon	0.149	mg/L	B	9060_TOC	10-Jun-13		WSCF130671
B2PDF7	Specific Conductance	1.55	uS/cm		120.1_CONDUCT	17-Jun-13		W06575
B2PDF7	Chloride	0.02	mg/L	U	300.0_ANIONS_IC	17-Jun-13		W06575
B2PDF7	Nitrogen in Nitrate	0.004	mg/L	U	300.0_ANIONS_IC	17-Jun-13		W06575
B2PDF7	Nitrogen in Nitrite	0.003	mg/L	U	300.0_ANIONS_IC	17-Jun-13		W06575
B2PDF7	Sulfate	0.05	mg/L	U	300.0_ANIONS_IC	17-Jun-13		W06575
B2PDF7	Total organic carbon	0.27	mg/L	U	9060_TOC	17-Jun-13		W06575